

ATTACHMENT A

STRATIGRAPHIC AND INSTRUMENTATION LOGS

ATTACHMENT A.1

PHASE 1A SOIL BORING STRATIGRAPHIC LOGS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH01-13

PROJECT NUMBER: 038443-74-02

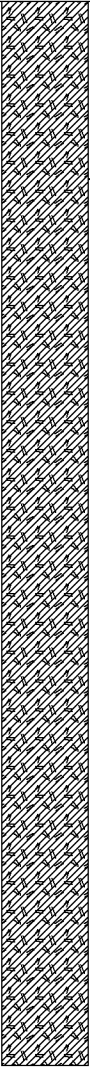

DATE COMPLETED: June 13, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	ASPHALT	1.00	 BACKFILLED WITH BENTONITE CHIPS	1GP		3.0		0.0
	SW-SAND (FILL), trace gravel/cobble, medium sand, well graded, dark gray, low moisture - 0.2' cobble layer at 2.4ft BGS	2.60						0.0
4	ML-SILT (FILL), trace gravel fragments, fine sand, low plasticity, gray, low moisture							0.0
6		6.60		2GP		3.5		0.0
8	SW-SAND (native), gravel/cobbles fragments, medium sand, well graded, tan, low moisture							0.0
10								0.0
12				3GP		4.0		0.0
14	- 0.25' cobble layer, light gray at 13.7ft BGS							0.0
16				4GP		3.0		0.0
18								0.0
20			 Wet at 21.5 ft BGS	5GP		3.4		0.0
22								0.0
24								0.0
26				6GP				0.0
28								0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						--
32	Temporary well screened from 22.5 to 26.5ft BGS. Screen removed and backfilled on June 17, 2013.							
34	Depth: 21.5-23.5 ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH02-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 14, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	ASPHALT	0.25						
1.00	SM-SAND/SILT (FILL), some fine gravel, compact, fine sand, some coarse sand	1.00						99.1
2	ML-SILT (FILL), compact, gray, moist			1GP		2.7		85.0
4								67.2
5.20	SM-SAND/SILT (FILL), trace fine gravel, fine to medium sand, compact, well graded, dark brown, dry	5.20						46
7.00	SW/GW-SAND AND GRAVEL (FILL), loose, fine, medium and coarse sand, fine gravel, well graded, tan/brown, dry	7.00		2GP		3.5		76
8								32.8
10								47.8
12				3GP		4.1		26.4
14								4.6
16				4GP		4.0		52.7
18								9.4
20								1.6
21.00	SW-SAND (native), medium to coarse sand, little fine sand, loose, well graded, tan/brown, wet	21.00		5GP		4.0		0.0
22								
24								
26	END OF BOREHOLE @ 26.0ft BGS	26.00		6GP				
28	Temporary well screened from 21.5 to 25.5ft BGS. Screen removed and backfilled on June 14, 2013.							
30	Depth: 20.5-22.5ft BGS							
32	Sudan IV test results:negative							
34	PID Headspace (ppm): 9.4							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH03-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 13, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	ASPHALT	1.00	BACKFILLED WITH BENTONITE CHIPS	1GP		3.0		0.0
4	SW-SAND (FILL), gravel/cobble fragments, brick fragments, medium sand, well graded, brown, low moisture							0.0
6								0.0
8	ML-SILT (FILL), trace gravel, fine grained	6.50		2GP		2.8		0.0
10	SW-SAND (FILL), gravel/cobble fragments, medium sand, well graded, tan/brown, low moisture	7.50						0.0
12	SP-SAND (FILL), medium sand, poorly graded, brown	11.00		3GP		3.4		0.0
14	SW-SAND (native), gravel/cobble fragments, medium sand, well graded, brown/tan, low moisture	11.50						0.0
16	- 0.25' cobble layer at 16.5ft BGS			4GP		4.0		0.0
18								0.0
20								0.0
22	- Wet, high moisture below at 21.8ft BGS		WATER FOUND ▼	5GP		2.3		0.0
24								0.0
26	- orange sand, 0.5' thick at 27.0ft BGS			6GP		2.3		0.0
28								0.0
30								0.0
32	CL-CLAY (till), fine grained, medium plasticity, dark gray, low moisture	32.40		7GP		5.0		0.0
34								0.0
36	SW-SAND (native), gravel/cobble fragments, medium sand, well graded, brown/tan, low moisture	34.40		8GP		3.7		0.0
38								0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13




STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH03-13
DATE COMPLETED: June 13, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE							
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)			
40	- black layer, chemical odor from 40.7 to 42.1ft BGS			9GP		2.9		0.0			
								0.0			
42								637			
44								0.0			
46	- 1.33' black layer at 47.0ft BGS			10GP		3.4		0.0			
48								0.0			
50								0.0			
52								0.0			
54				11GP		2.9		0.0			
56					0.0						
58	CL-CLAY (till), high density, fine grained, high plasticity, gray, medium moisture	57.00			12GP				3.0		0.0
		58.00									0.0
60	SW-SAND (native), gravel/cobble fragments, medium sand, well graded, brown/tan, low moisture	60.00				0.0					
	END OF BOREHOLE @ 60.0ft BGS										
62	Temporary well screened from 22.75 to 26.75ft BGS. Screen removed and backfilled on June 14, 2013.										
64	Depth: 21.75-23.75ft BGS Sudan IV test results:negative PID Headspace (ppm): 0										
66	Depth: 30.4-32.4ft BGS Sudan IV test results:negative PID Headspace (ppm): 0										
68	Depth: 34.4-35ft BGS Sudan IV test results:negative PID Headspace (ppm): 0										
70	Depth: 40.66-42.66ft BGS Sudan IV test results: positive PID Headspace (ppm): 637										
72											
74											
76											

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH04-13
DATE COMPLETED: June 14, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	ASPHALT	0.25		1GP	4.0	4.0		0.4
1.30	SW-SAND (FILL), loose, fine to medium sand, well graded, dark brown, dry	1.30						0.0
1.60		1.60						0.0
2.30	SM-SAND/SILT (FILL), compact, fine to medium sand, dark brown, dry	2.30						0.0
2.70		2.70		2GP	3.6	3.6		0.0
	SW-SAND (FILL), loose, fine to medium sand, well graded, dark brown, dry							0.0
	SM-SAND/SILT (FILL), compact, fine to medium sand, dark brown, dry							0.0
	SW-SAND (FILL), loose, fine to medium sand, well graded, dark gray/black, dry							0.0
	- orange/red clay dust at 4.0ft BGS							6.2
11.00	SM-SAND/SILT (FILL), compact, fine to medium sand, dark brown, dry	11.00		3GP	3.5	3.5		76.6
14.0	- 2" thick medium to coarse sand seam, with fine gravel, loose at 14.0ft BGS			4GP	4.0	4.0		3.8
15.20	SW-SAND (native), little fine gravel, fine, medium and coarse sand, loose, well graded, tan/brown, dry	15.20						0.2
20.3	- Wet at 20.3ft BGS							0.2
22.3								0.0
25.00	END OF BOREHOLE @ 25.0ft BGS	25.00		5GP				0.0
21.3	Temporary well screened from 21.3 to 25.3ft BGS. Screen removed and backfilled on June 14, 2013.							
20.3	Depth: 20.3-22.3ft BGS							
	Sudan IV test results:negative							
	PID Headspace (ppm): 0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH05-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 13, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SILTY SAND (FILL), slightly compact, fine, medium and coarse sand, well graded, black-brown, dry - cobble fragments at 1.0ft BGS			1GP		4.0		0.0
4	- red clay brick dust (slag-like material) at 3.0ft BGS							
6	- nail at 5.5ft BGS							
8	- 1.5" silt lens, with sand at 6.8ft BGS - 2" slag-like material at 7.0ft BGS			2GP		3.5		0.0
10								
12	SM-CLAYEY SILT/SAND (FILL), trace fine gravel, compact, fine sand, dark brown, dry - fine to medium sand at 11.2ft BGS	11.00		3GP		1.5		11.5
14								
16	SW-SILTY SAND (FILL), fine, medium and coarse sand, well graded, loose, black/brown, dry	15.00		4GP		2.0		0.0
18								
20	- wet at 20.0ft BGS							
22	SW-SAND (native), little to some silt, trace fine gravel, medium to coarse sand, fine sand, well graded, loose, brown, dry to wet	21.00		5GP		2.5		0.0
24								

BACKFILLED
WITH
BENTONITE
CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH05-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 13, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26				6GP		2.8		0.0
28								
30								
32	CL-SILTY CLAY, trace coarse sand, cohesive, low plasticity, gray, dry	32.00		7GP		4.0		0.5
34								
36								
38				8GP		5.0		0.0
40	SP-SAND (native), loose, fine to medium sand, poorly graded - increase in fine gravel content at 40.5ft BGS	39.20						
42				9GP		4.0		0.0
44								
46								
48				10GP		3.7		0.7

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
 PROJECT NUMBER: 038443-74-02
 CLIENT: PRP GROUP
 LOCATION: MORaine, OH

HOLE DESIGNATION: BH05-13
 DATE COMPLETED: June 13, 2013
 DRILLING METHOD: GEOPROBE
 FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
52	- fine to medium sand from 51.5 to 53.0ft BGS - solvent odor from 52.0 to 60.0ft BGS			11GP		3.7		27
54	- medium to coarse sand, with fine gravel at 53.0ft BGS							833
56	- dark gray staining from 55.5 to 57.0ft BGS			12GP		3.7		407
58								
60	END OF BOREHOLE @ 60.0ft BGS	60.00						123
62	Temporary well screened from 21.0 to 25.0ft BGS. Screen removed and backfilled on June 14, 2013.							
64	Depth: 20-22ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
66	Depth: 31-32ft BGS Sudan IV test results:negative PID Headspace (ppm): 0.5							
68	Depth: 39.2-40ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
70	Depth: 53-55ft BGS Sudan IV test results:positive PID Headspace (ppm): 833							
72	Depth: 55-57ft BGS Sudan IV test results:negative PID Headspace (ppm): 407							
74								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH06-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 13, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), fine grained gravel, fine, medium and coarse sand, loose, well graded, brown, dry	1.00	BACKFILLED WITH BENTONITE CHIPS	1GP		4.5		0.0
4	ML-SILT (FILL), cohesive, brown, dry - sand, fine gravel and red clay at 2.5ft BGS - gray at 3.0ft BGS			2GP		4.3		0.0
6								0.0
8								0.0
10	SW-SILTY SAND (FILL), trace clay, fine, medium and coarse sand, loose, well graded, dark brown/black, dry	9.00		3GP		2.0		0.0
12								0.0
14								0.0
16	- brown/tan at 16.5ft BGS			4GP		2.0		0.0
18								0.0
20	- pieces of granite fragments at 20.0ft BGS							0.0
22	- Wet at 21.0ft BGS			5GP		2.2		0.0
24								0.0
26	END OF BOREHOLE @ 26.0ft BGS	26.00						
28	Temporary well screened from 22.0 to 26.0ft BGS. Screen removed and backfilled on June 13, 2013.							
30	Depth: 21-23ft BGS							
32	Sudan IV test results: negative							
34	PID Headspace (ppm): 0							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH07-13
DATE COMPLETED: June 12, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW/GW-SAND & GRAVEL (FILL), loose, well graded, medium coarse sand, fine gravel, dark gray, dry			1GP		4.0		0.0
4	SP-SAND (FILL), loose, fine grained, poorly graded, wet, gray, fly ash-like material	3.50						0.0
6	SW-SAND (FILL), loose, fine to medium to coarse sand, well graded, brown/tan, dry	5.00		2GP		1.5		0.0
8								0.0
10	CL-CLAY (FILL), silt, trace coarse sand, fine gravel, cohesive, dark brown, dry - orange crush brick fragments at 10.0ft BGS	9.50						0.0
12	SW/GW-SAND & GRAVEL (native), loose, fine to medium to coarse sand, fine gravel, well graded, brown, dry	11.00		3GP		3.0		0.0
14								0.0
16				4GP		3.0		0.0
18	- coarse gravel fragments at 18.5ft BGS							0.0
20								0.0
22	- Wet at 21.0ft BGS			5GP		4.2		0.0
24	SW-SAND (native), loose, medium to coarse sand, well graded, wet	24.00						0.0
26	END OF BOREHOLE @ 26.0ft BGS	26.00						
28	Temporary well screened from 22.0 to 26.0ft BGS. Screen removed and backfilled on June 12, 2013.							
30	Depth: 3.5-5ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
32	Depth: 21-23ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH08-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 12, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND, little silt, slightly compact, fine to medium coarse sand, well graded, brown, dry	2.00	BACKFILLED WITH BENTONITE CHIPS	1GP		3.7		0.0
4	CL-CLAY, trace coarse sand and fine gravel, cohesive, low plasticity	4.30		2GP		2.4		0.0
	- cobble fragment at 4.2ft BGS							
6	SW-SAND, little fine gravel, loose, medium coarse sand, well graded, dark gray/black/brown			3GP		3.0		0.0
8	- orange staining 3/4" thick at 7.0ft BGS			4GP		3.2		0.0
10	CL-CLAY, little to some coarse sand/fine gravel, cohesive, low plasticity, dark brown,	9.80		5GP		3.1		0.0
12	SW/GW-SAND/GRAVEL, loose, cohesive, medium sand, fine gravel, well graded, brown/tan, dry	11.00		6GP		2.7		0.0
14	- cobble fragments at 14.5ft BGS			7GP		3.5		0.0
16			WATER FOUND ▼	8GP		4.2		0.0
18								
20								
22	- Wet at 21.5ft BGS							
24								
26								
28								
30								
32								
34	CL-CLAY, trace coarse sand, stiff, firm, low plasticity, gray, dry	34.00						
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH08-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 12, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								
42				9GP		4.0		0.0
44								
46	SW-SAND, loose, fine to medium sand, well graded, brown, wet	45.00		10GP		3.5		0.0
48								
50	- increase to some coarse sand at 49.5ft BGS			11GP		3.5		0.0
52								
54								
56				12GP		3.5		0.0
58								
60	END OF BOREHOLE @ 60.0ft BGS	60.00						
62	Temporary well screened from 22.5 to 26.5ft BGS. Screen removed and backfilled June 13, 2013.							
64	Depth: 21.5-23.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
66								
68	Depth: 34ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
70								
72	Depth: 45-47ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH09-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 10, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE/J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW/ML-SAND AND SILT (FILL), trace fine gravel, compact, medium to coarse sand, gray to dark gray, dry - 2" fine sand, loose, gray at 2.5ft BGS			1GP		4.0		11.3 45.3
4	- cohesive, increase in clay content at 4.0ft BGS							39 32.0
6				2GP	2.0			0
8	- cobble at 8.5ft BGS - 1/2" black sand seam at 9.3ft BGS	9.50						1.6
10	CL-SILTY CLAY (FILL), little to some medium sand, cohesive, dense, dark brown, dry	10.20						0.0
12	GC-GRAVEL AND CLAY (native), trace medium to coarse sand, fine to coarse gravel, slightly consolidated, gray			3GP	3.0			0.0
14	- cobble fragments at 12.7ft BGS - cobble at 13.8ft BGS	13.80						0.0
16	SW-SAND (native), trace fine gravel, loose, medium to coarse sand, tan/brown, dry			4GP	3.5			0.0
18	- cobble fragments at 18.7ft BGS - cobble fragments at 19.1ft BGS							0.0
20	- cobble fragments, with iron staining at 20.5ft BGS							0.0
22	- granite fragment at 23.0ft BGS			5GP	2.5			0.0
24								0.0
26	- medium to coarse sand from 25.0 to 25.5ft BGS			6GP	2.3			0.0
28								0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32	Temporary well screened from 21.5 to 25.5ft BGS. Screen removed and backfilled on June 11, 2013.							
34	Depth: 20.5ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH10-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 10, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE/ J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), trace fine gravel, medium to coarse sand, loose, well graded, dark gray, dry - brown/tan at 0.5ft BGS			1GP		3.5		0.0
4	ML-SILT (FILL), cohesive, dark gray, dry	3.20						0.0
6								0.0
8				2GP		1.8		0.0
10								0.0
12	SW/GW-SAND AND GRAVEL (native), loose, medium to coarse sand, fine gravel, dry	11.50		3GP		3.0		0.0
14								0.0
16								0.0
18				4GP		3.0		0.0
20								0.0
22				5GP		3.0		0.0
24								0.0
26								0.0
28				6GP		2.5		0.0
30	COBBLE FRAGMENT, pieces of boulders	28.50						0.0
32	END OF BOREHOLE @ 30.0ft BGS	30.00						
34	Temporary well screened from 21.5 to 25.5ft BGS. Screen removed and backfilled on June 11, 2013.							
36	Depth: 18-20ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH11-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 11, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN/ J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), trace fine gravel, loose, fine to medium to coarse sand, well-graded, brown, dry	1.50		1GP		3.5		16.8
	ML-SILT (FILL), compact, dark gray, dry	3.20						19.5
4	SW-SAND (FILL), trace little fine gravel, loose, fine to medium to coarse sand, well graded, brown, dry,							6.3
6								0.8
8	- dark brown sand at 7.5ft BGS - orange colored sand - 1/2" at 8.2ft BGS	8.50		2GP		3.8		0.2
10	CL-CLAY, silty, trace medium sand, cohesive, poorly graded, dark brown, dry	9.80						0.0
12	SW-SAND (native), trace little fine gravel, loose, fine to medium to coarse sand, well graded, brown, dry,			3GP		3.5		0.0
14								0.0
16				4GP		3.5		0.5
18								1.0
20	- water table at 20.5ft BGS			5GP		1.8		0.0
22								0.0
24								3.4
26				6GP		2.7		6.4
28								9.7
30	- cobble fragments at 29.0ft BGS							
32	END OF BOREHOLE @ 30.0ft BGS	30.00						
34	Temporary well screened from 21.5 to 25.5ft BGS. Screen removed and backfilled on June 17, 2013.							
36	Depth: 20.5-21.5ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH12-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 11, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), little fine gravel, fine, medium and coarse sand, well graded, brown/tan, dry	1.80		1GP		3.7		0.0
4	SW-SAND (FILL), trace fine gravel, loose, fine to medium sand, little coarse sand, well graded, brown, dry	2.30						0.0
4	ML-SILT (FILL), trace fine sand and fine gravel, compact, tan/brown, dry	4.00		2GP		3.6		0.0
6	ML-SILT (FILL), trace fine sand, compact, gray, dry	5.00						0.0
8	- glass pieces at 5.0ft BGS	7.50						0.0
10	SP-SAND (FILL), fine grained, loose, poorly graded, dark gray, dry	10.00		3GP		3.7		0.0
12	- light gray at 5.5ft BGS							0.0
14	- 1/8" orange seam at 6.0ft BGS			4GP		3.1		0.0
16	ML-SANDY SILT (FILL), trace fine gravel, cohesive, dense, dark brown, dry							0.0
18	SW-SAND (native), little to some fine gravel, fine, medium and coarse sand, well graded, brown, dry			5GP		3.5		0.0
20	- Wet at 20.5ft BGS							0.0
22								0.0
24								0.0
26	END OF BOREHOLE @ 26.0ft BGS	26.00						0.0
28	Temporary well screened from 21.5 to 25.5ft BGS. Screen removed and backfilled on June 11, 2013.							
30	Depth: 20.5-22.5ft BGS							
32	Sudan IV test results:negative							
34	PID Headspace (ppm): 0							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH13-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 11, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), medium density, fine to medium sands with gravel, low plasticity, gray/light brown, low moisture - gray gravelly stones, 0.33' thick at 1.0ft BGS - some gray gravel stones at 2.3ft BGS	2.66	BACKFILLED WITH BENTONITE CHIPS	1GP		3.0		0.0
4	ML-SILT (FILL), fine grained, dark gray, medium moisture	6.80		2GP		3.3		0.0
6								0.0
8	SW-SAND (FILL), medium grained, large stones/gravel throughout, low plasticity, brown, medium moisture	10.00		3GP		3.0		0.0
10								0.0
12	SW-SAND (native), medium grained, large stones/gravel throughout, low plasticity, brown, medium moisture			4GP		3.5		0.0
14								0.0
16	- gray cobble, 0.25' thick at 15.5ft BGS - medium grained, increasing gravel content at 15.8ft BGS		▽	5GP		2.3		0.0
18								0.0
20	- water table, wet below at 20.5ft BGS			6GP		2.3		0.0
22								0.0
24								0.0
26	- cobble layer 0.25' thick at 26.3ft BGS							0.0
28								0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.0
32	Temporary well screened from 21.5 to 25.5ft BGS. Screen removed and backfilled on June 17, 2013.							
34	Depth: 20.5-22.5ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH14-13
DATE COMPLETED: June 11, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BORHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), trace to little fine gravel, fine, medium and coarse sand, loose, well graded, brown/tan, dry - trace silt, trace fine gravel, fine to medium sand, trace coarse sand, dark gray at 1.5ft BGS			1GP		3.0		0.0
4								0.0
6								0.0
8	SM-SAND/SILT (FILL), fine grained sand, compact, dark brown, dry - 1" sand seam, fine to medium grained at 8.3 ft BGS	8.00 8.40		2GP		2.8		0.0
10	CL-CLAY, silty/sand, cohesive dense, low plasticity, dark brown, dry	9.50 10.00						0.0
12	SW/GW-SAND/GRAVEL (native), loose, fine medium coarse sand, fine gravel, well graded, tan/brown, dry			3GP		3.0		0.0
14	SP-SAND (native), loose, fine grained sand, trace, fine gravel, brown, dry							0.0
16	SW-SAND (native), some fine gravel, loose, fine to coarse grained sand, well graded, brown, dry	15.00		4GP		3.0		0.0
18								0.0
20	SW/GW-SAND & GRAVEL (native), loose, medium to trace coarse sand, fine gravel, well graded, brown, wet - Water table at 20.5ft BGS	20.00		5GP		4.0		0.0
22								0.0
24								0.0
26	END OF BOREHOLE @ 26.0ft BGS	26.00						0.0
28	Temporary well screened from 21.5 to 25.5ft BGS. Screen removed and backfilled on June 11, 2013.							
30	Depth: 20.5-22.5ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH15-13
DATE COMPLETED: June 12, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	TOPSOIL	0.25						0.0
2	SW-SAND (FILL), trace gravel and cobble fragments, medium sand, low plasticity, low moisture			1GP		4.5		0.0
4	ML-SILT (FILL), fine grained, dark gray, low moisture	4.00						0.0
6	SW-SAND (FILL), with trace gravel and cobble fragments, medium sand, low plasticity, low moisture	5.00						0.0
8	- clay layer, medium plasticity, low moisture, 1' thick at 6.8ft BGS			2GP		3.0		0.0
10	SP-SAND (FILL), medium sand, tan, low moisture	10.00						0.0
12	SW-SAND (native), trace gravel and cobble fragments, low plasticity, low moisture	11.25		3GP		2.8		0.0
14								0.0
16	- cobble layer, 0.2' thick at 16.0ft BGS			4GP		3.3		0.0
18								0.0
20	- Wet at 20.5ft BGS							0.0
22				5GP		3.0		0.0
24								0.0
26	END OF BOREHOLE @ 26.0ft BGS	26.00						
28	Temporary well screened from 21.5 to 25.5ft BGS. Screen removed and backfilled on June 17, 2013.							
30	Depth: 20.5-22.5ft BGS							
32	Sudan IV test results:negative							
34	PID Headspace (ppm): 0							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH16-13

PROJECT NUMBER: 038443-74-02


DATE COMPLETED: June 11, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	TOPSOIL/COBBLE	0.50						0.0
2	SP-SAND (FILL), loose, fine sand, little medium sand, poorly graded, black, dry	2.00		1GP		4.0		0.0
4	CL-CLAY (FILL), silty/sandy, trace fine gravel, cohesive, dark gray, dry - fine gravel at 4.2ft BGS	4.00						0.0
6	SP-SAND (FILL), loose, fine sand, little medium sand, poorly graded, black, dry - silty sand, black, trace crushed red brick at 5.5ft BGS							0.0
8	- cobble fragments at 6.1ft BGS	8.50		2GP		3.9		0.8
10	SM-SANDY SILT (FILL), compact, fine to medium sand, dark brown, damp	9.70						0.0
12	SW-SAND (native), loose, fine to medium to coarse sand, some fine gravel, well graded, brown/tan, dry			3GP		3.0		0.0
14								0.0
16	SP-SAND (native), medium grained, loose, poorly graded, brown, dry	15.00						0.2
18	SW-SAND (native), loose, fine to medium to coarse sand, some fine gravel, well graded, brown/tan, dry	17.00		4GP		3.0		0.0
20	- water table at 20.5ft BGS							0.0
22				5GP		3.0		0.0
24								0.0
26	END OF BOREHOLE @ 26.0ft BGS	26.00						0.0
28	Temporary wells screened from 21.5 to 25.5ft BGS (S) and from 29.5 to 33.5ft BGS (D). (S) screen removed and backfilled on June 12, 2013, and (D) screen removed and backfilled on July 9, 2013							
30								
32	Depth: 20.5-22.5ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13

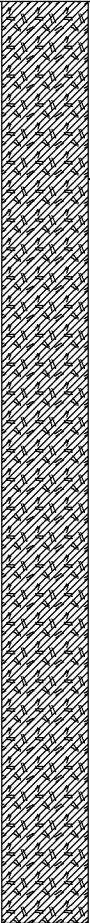


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH17-13
DATE COMPLETED: June 12, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	TOPSOIL/COBBLES FRAGMENTS, gray colored cobbles - fine grained, dark gray/black, 0.25' thick at 0.9ft BGS	0.75		1GP		4.6		0.0
4	SW-SAND (FILL), gravel/cobble fragments, medium grained, low plasticity, tan/light brown, low moisture - same dark layer as previously described, 0.25' thick at 1.3ft BGS - same dark layer as previously described, 1.25' thick at 2.0ft BGS	3.33 4.25		2GP		4.8		0.0
8	ML-SILTY CLAY (FILL), fine grained, medium plasticity, gray, medium to low moisture							0.0
10	SW-SAND (FILL), trace gravel/cobble fragments, medium sand, dark staining, no odor through through 5-6'	9.80		3GP		3.4		0.0
12	SW-SAND (native), trace gravel/cobble fragments, medium sand, dark staining, - fill sand, tan, medium grained, 0.9' thick at 10.5ft BGS			4GP		3.5		0.0
14								0.0
16								0.0
18								0.0
20	- water table at 20.5ft BGS - cobble layer, 0.25' thick at 21.0ft BGS			5GP		3.5		0.0
22								0.0
24								0.0
26	END OF BOREHOLE @ 26.0ft BGS	26.00						
28	Temporary wells screened from 21.5 to 25.5ft BGS (S) and from 29.5 to 33.5ft BGS (D). (S) screen removed and backfilled on June 17, 2013, and (D) screen removed and backfilled on July 10, 2013.							
30								
32	Depth: 20.5-22.5ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH18-13
DATE COMPLETED: June 12, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.50	TOPSOIL/COBBLE - dark coloration, no odor, 0.3' thick at 0.8ft BGS	0.50	 BACKFILLED WITH BENTONITE CHIPS	1GP		3.8		0.0
2.00	SW-SAND (FILL), trace gravel and cobbles, medium sand	2.00						0.0
3.50	- red brick fragments at 1.8ft BGS	3.50						0.0
6.00	ML-SILT (FILL), fine grained, low plasticity, gray, low moisture	6.00						0.0
8.00	- cobble layer, light gray, 0.15' thick at 2.6ft BGS	8.00		2GP		3.8		0.0
10.50	SW-SAND (FILL), trace gravel and cobbles, medium sand	10.50						0.0
12.00	ML-SILT (FILL), fine grained, low plasticity, gray, low moisture	12.00						0.0
14.00	SW-SAND (native), trace large gravel/cobble fragments medium sand	14.00		3GP		2.8		0.0
16.00	- rock layer, 0.15' thick at 10.5 ft BGS	16.00						0.0
18.00		18.00		4GP		3.3		0.0
20.50	- Wet at 20.5ft BGS	20.50						0.0
22.00		22.00		5GP		3.3		0.0
24.00		24.00						0.0
26.00	END OF BOREHOLE @ 26.0ft BGS	26.00						0.0
28.00	Temporary wells screened from 21.5 to 25.5ft BGS (S) and from 29.5 to 33.5ft BGS (D). (S) screen removed and backfilled on June 17, 2013 and (D) screen removed and backfilled on July 9, 2013.							
30.00								
32.00	Depth: 20.5-22.5ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
34.00								
36.00								
38.00								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH19-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 12, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	TOPSOIL	0.50						0.0
2	ML-SILT (FILL), fine grained, low plasticity, dark gray, few orange stains, low moisture	2.25		1GP		4.5		0.0
4	SW-SAND (FILL), trace gravel/cobble fragments, medium sand, brown/tan, low moisture	3.00						0.0
6	ML-SILT (FILL), fine grained, low plasticity, dark gray, few orange stains, low moisture - silt becomes darker, black, 2' thick cobbles fragments throughout at 6.0ft BGS							0.0
8	CL-CLAY (FILL), medium plasticity, brown, low moisture	8.00		2GP		4.4		0.0
10		10.25						0.0
12	SW-SAND (native), trace coarse gravel/cobble fragments, medium sand, brown/tan, low moisture - cobble layer, 0.25' thick at 11.8ft BGS			3GP		3.5		0.0
14								0.0
16								0.0
18	- water at 18.3ft BGS			4GP		3.2		0.0
20		20.00						0.0
22	SW-SAND (native), with fine gravel, medium sand, sub-angular gravel, brown, very moist			5GP		3.6		0.0
24								0.0
26								0.0
28				6GP		2.0		0.0
30								0.0
32				7GP		3.0		0.0
34								0.0
36								0.0
38								0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH19-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 12, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40	- till section, very thin, 0.5' thick, lithology changed from sand/gravel to silt at 45.0ft BGS							0.0
42								0.0
44								0.0
46								0.0
48								0.0
50								0.0
52								-
54								
56								
58								-
60	END OF BOREHOLE @ 60.0ft BGS	60.00						
62	Temporary well screened from 19.25 to 23.25ft BGS. Screen removed and backfilled on June 17, 2013.							
64	Depth: 20.5-22.5ft BGS							
66	Sudan IV test results:negative							
68	PID Headspace (ppm): 0							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH20-13
DATE COMPLETED: June 17, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), medium to coarse sand, loose, well graded, tan/off-white, dry	1.00	 BACKFILLED WITH BENTONITE CHIPS	1GP		4.0		0.0
4	SM-SILTY SAND (FILL), trace fine gravel, compact, fine to medium sand, little coarse sand, dark brown, dry							0.0
6								0.0
8	- 1" firm, coarse sand seam at 7.0ft BGS			2GP		4.0		0.0
10		9.00						0.0
12	SW/GW-SAND AND GRAVEL (native), medium to coarse sand, fine gravel, loose, well graded, tan/brown, dry			3GP		3.5		0.0
14								0.0
16								0.0
18				4GP		3.5		0.0
20	- off white cobble fragments and flour at 18.5ft BGS							0.0
22			 WATER FOUND ▼	5GP		3.0		0.0
24		25.00						0.0
26	END OF BOREHOLE @ 25.0ft BGS							
28	Temporary well screened from 20.5 to 24.5ft BGS. Screen removed and backfilled on June 17, 2013.							
30	Depth: 19.5-21.5ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
32								
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH21-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 17, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SILTY SAND (FILL), gravel/cobble fragments, fine silt, medium sand, low plasticity, brown, low moisture							0.0
	- 0.2' very fine grained, dark gray, no odor at 2.8ft BGS	3.00		1GP		3.7		11.3
4	CL-CLAY (FILL), with gravel/cobble and medium sand, high plasticity, dark brown, medium moisture							10.8
6	- 0.25' sand with gravel layer increasing clay with depth, decreasing moisture with depth at 3.9ft BGS			2GP		2.8		36.1
8								20.9
10	SW-SAND (native), with gravel/rock, medium sand, low density, tan, low moisture	9.50						0.0
12				3GP		3.0		0.0
14								0.0
16								0.0
18	- Wet at 18.3ft BGS			4GP		4.3		0.0
20								0.0
22	- 1.2' orange sand at 21.8ft BGS			5GP		2.5		0.0
24								0.9
26				6GP		2.3		1.0
28								0.0
30								2.7
32				7GP		2.5		1.3
34								4.8
36								0.0
38				8GP		2.3		

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH21-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 17, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								0.0
42				9GP		3.1		0.0
44								0.0
46								0.0
48				10GP		2.9		0.0
50								0.0
52				11GP		2.6		2.3
54								1.8
56								0.0
58				12GP		3.0		0.0
60	END OF BOREHOLE @ 60.0ft BGS	60.00						0.0
62	Temporary well screened from 19.25 to 23.25ft BGS. Screen removed and backfilled on June 18, 2013.							
64	Depth: 18.25-20.25ft BGS							
66	Sudan IV test results:negative							
68	PID Headspace (ppm): 0							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH22-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 17, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	TOPSOIL	0.50						0.0
2	SP-SAND (FILL), medium sand, low density, black, low moisture, no odor	0.70						
4	SM-SILTY SAND (FILL), medium sand, medium density, low plasticity, brown, low moisture	3.00		1GP		3.8		0.0
6	SW-SILTY SAND (FILL), trace coarse gravel, tan/brown							0.0
8	SM-SILTY SAND (FILL), medium sand, medium density, low plasticity, brown, low moisture	7.00		2GP		3.0		0.0
10								0.0
12	SW-SAND (native), with coarse gravel, medium sand, low density, tan/brown, low moisture	10.00		3GP		3.0		0.0
14								0.0
16								0.0
18				4GP		2.5		0.0
20								0.0
22								0.0
24				5GP		2.6		0.0
26	END OF BOREHOLE @ 26.0ft BGS	26.00						0.0
28	Temporary well screened from 21.5 to 25.5ft BGS. Screen removed and backfilled on June 18, 2013.							
30	Depth: 20.4-22.4ft BGS							
32	Sudan IV test results:negative							
34	PID Headspace (ppm): 0							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH23-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 17, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SM-SAND AND SILT (FILL), fine sand, trace medium to coarse sand, compact, dark brown, dry - cobble at 2.5ft BGS			1GP		3.2		0.0
4								0.0
6								0.0
8				2GP		3.1		0.0
10	SW/GW-SAND AND GRAVEL (native), medium to coarse sand, little fine sand, fine gravel, loose, brown/tan, dry	9.40						0.0
12				3GP		3.1		0.0
14								0.0
16				4GP		3.5		0.0
18	SW-SAND (native), fine to medium sand, loose, little to some coarse sand, well graded, wet - increase in gravel content (little to some gravel) at 30.0ft BGS	26.00						0.0
20								0.0
22				5GP		3.0		0.0
24								0.0
26				6GP		3.0		0.0
28								0.0
30								0.0
32				7GP		3.0		0.0
34								0.0
36								0.0
38				8GP		3.0		0.0

← BACKFILLED
WITH
BENTONITE
CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH23-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 17, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								0.0
42				9GP		3.7		0.0
44								0.0
46								0.0
48				10GP		3.0		0.0
50								0.0
52				11GP		1.0		0.0
54								0.0
56								0.0
58				12GP		0.0		0.0
60	END OF BOREHOLE @ 60.0ft BGS	60.00						0.0
62	Temporary well screened from 20.5 to 24.5ft BGS. Screen removed and backfilled on June 18, 2013.							
64	Depth: 19.5-21.2ft BGS							
66	Sudan IV test results:negative							
68	PID Headspace (ppm): 0							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH24-13
DATE COMPLETED: June 17, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SM-SAND AND SILT (FILL), trace cobble, compact, fine sand, trace medium sand, dark brown, dry			1GP		3.8		0.0
4								0.0
6								0.0
8				2GP		3.1		0.0
10	SW/GW-SAND AND GRAVEL (native), few gravel, few fine sand, with medium grained sand, loose, brown/tan, moist	9.70						0.0
12				3GP		3.8		0.0
14								0.4
16								0.1
18	- 1' thick zone of few gravel at 17.8ft BGS			4GP		4.1		0.1
20	- coarse grained at 20.0ft BGS							0.0
22				5GP		4.6		0.0
24	- fine grained at 24.4ft BGS	25.00						0.0
26	END OF BOREHOLE @ 25.0ft BGS							
28	Temporary well screened from 20.6 to 24.6ft BGS. Screen removed and backfilled on June 19, 2013.							
30	Depth: 19.6-21.6ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
32								
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH25-13
DATE COMPLETED: June 17, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	TOPSOIL	0.50						0.0
2	SW-SAND (FILL), with gravel, medium sand, black	1.25		1GP		3.2		0.0
4	SM-SILTY SAND (FILL), trace coarse gravel, medium density, low plasticity, brown, low moisture							0.0
6								0.0
8	CL-SANDY SILTY CLAY (FILL), high density, low plasticity, dark gray, low moisture	6.75		2GP		3.5		0.0
10	SW-SAND (native), trace coarse gravel, low density, medium sand, tan/brown, low moisture	8.20						0.0
12				3GP		2.7		0.0
14								0.0
16				4GP		3.0		0.0
18								0.0
20								0.0
22				5GP		3.5		0.0
24								0.0
26	END OF BOREHOLE @ 26.0ft BGS	26.00						0.0
28	Temporary well screened from 21.75 to 25.75ft BGS. Screen removed and backfilled on June 18, 2013.							
30	Depth: 20.75-22.75ft BGS							
32	Sudan IV test results:negative							
34	PID Headspace (ppm): 0							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH30-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 2, 2013



CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.50	TOPSOIL							22.4
2	SW-SAND (FILL), with gravel, cobbles, silt, low density, fine to medium sand, dark brown, low moisture			1GP		3.8		13.5
4								8.1
6								3.7
8	- more silt based, glass shards at 8.0ft BGS			2GP		4.0		1.2
10								0.0
12								-
14				3GP		1.0		0.0
15.10	CL-CLAY, high density, medium plasticity, brown, low moisture							0.0
16.25	SW-SILTY SAND with gravel, brown, low-medium moisture			4GP		2.6		0.0
17.25	ML-SANDY SILT, high density, fine grained, low plasticity, brown, medium moisture							0.0
20.75	SW-SAND (native), with gravel, low density, tan/brown, high moisture			5GP		3.5		0.0
22								0.0
24								0.0
26				6GP		3.3		0.0
28								0.0
30								0.0
31.5	- water table at 31.5ft BGS			7GP		3.1		0.0
32								0.0
34								0.0
36				8GP		2.0		0.0
38								0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND 
 CHEMICAL ANALYSIS 

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH30-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 2, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								1.1
42				9GP		3.0		0.6
44								1.2
46								2.3
48				10GP		3.6		3.1
50								2.6
52				11GP		3.4		0.0
54								0.0
56								0.0
58				12GP		3.1		3.8
60	END OF BOREHOLE @ 60.0ft BGS	60.00						1.2
62	Temporary well screened from 32.5 to 36.5ft BGS. Screen removed and backfilled on July 8, 2013.							
64	Depth: 31.5-33.5ft BGS							
66	Sudan IV test results:negative							
68	PID Headspace (ppm): 0							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH31-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 1, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), loose, fine-medium sand, trace coarse sand, well graded, brown-gray, dry			1GP		3.3		0.0
4								0.0
6								4.4
6.50	SP-SAND/SILT (FILL), compact, gray, poorly graded, dry	7.00		2GP		3.1		0.0
8	SW-SAND (FILL), trace fine gravel, loose, fine to medium to coarse sand, well graded, brown/black, dry							6.8
10								0.0
10.70	SP-SAND/SILT (FILL), compact, poorly graded, gray, dry			3GP		3.0		2.4
12								20.4
14	- iron concretions at 13.5ft BGS							5.4
15.00	ML-SILT, compact, clayey, gray-olive green			4GP		3.1		111.3
16								84.3
18								17.8
20								
22								
24				5GP		3.1		

BACKFILLED
WITH
BENTONITE
CHIPS

18-20'
JC-076/077

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ☐
CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH31-13
DATE COMPLETED: July 1, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26	SW/GW-SAND/GRAVEL (native), loose, well graded, tan/brown, dry	26.00		6GP 26.5-28.5 JC-078	3.5	3.5		0.0
28	- water table at 28.5ft BGS							0.0
30								0.0
32	- more coarse sand than fine gravel at 33.0ft BGS			7GP	3.7	3.7		0.0
34								0.0
36	END OF BOREHOLE @ 35.0ft BGS	35.00						
38	Temporary well screened from 29.5 to 33.5ft BGS. Screen removed and backfilled on July 1, 2013.							
40	Depth: 28.5-30.5ft BGS							
42	Sudan IV test results:negative							
44	PID Headspace (ppm): 0							
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND
CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH32-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 2, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	ASPHALT	0.25						
	SW-SAND (FILL), loose, medium to coarse sand, trace fine sand, well graded, tan/brown, dry,	1.30						0.9
2	SP-SILTY SAND (FILL), fine sand, poorly graded, gray, dry			1GP		3.5		0.0
	- wood fragment at 2.1ft BGS							
4	- clay brick fragments at 3.0ft BGS							
6	- coal pieces at 6.0ft BGS							1.9
	- brown sand 1" thick at 7.0ft BGS			2GP		3.0		1.0
8	- black sand 1" thick at 7.2ft BGS							10.2
10								5.1
12				3GP		1.7		5.1
14								1.3
16				4GP		2.0		0.0
18								0.0
20	- no recovery at 20.3ft BGS							-
22				5GP		0.0		-
24								

← BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH32-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 2, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26								0.0
28	CL-CLAY, silty, cohesive, low plasticity, brown/tan, dry	27.25		6GP 26.5-28.5 JC-079		2.5		0.0
30	SW/GW-SAND & GRAVEL (native), silty, loose, fine-medium-coarse sand, fine gravel, slightly consolidated, well graded, brown/tan, dry - Wet at 28.5ft BGS	28.30	▽					0.0
32				7GP		2.9		0.0
34								
36	END OF BOREHOLE @ 35.0ft BGS	35.00						
38	Temporary well screened from 29.5 to 33.5ft BGS. Screen removed and backfilled on July 2, 2013.							
40	Depth: 28.5-30.5ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
42								
44								
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▽
 CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH33-13
DATE COMPLETED: June 26, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	PAVEMENT/ASPHALT							0.0
2	SW-SAND (FILL), with gravel and rocks, low density, medium sand, tan, strong chemical odor, low moisture	1.00		1GP		3.8		803
4								317
6	SP-SAND(FILL), fine/medium sand, dark gray/black, low moisture, strong chemical odor	5.50		2GP		3.4		82.2
8								324
10	- wood fragments, 0.5' thick at 10.5ft BGS			3GP		2.0		89.9
12								657
14								1679
16				4GP		2.4		1607
18								351
20		20.50		5GP		1.4		120
22	SW-SAND (native), with gravel/rock fragments, low density, medium sand, dark gray, low moisture							1873
24								275
26	- water table at 25.0ft BGS			6GP		2.0		162
28								64.5
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32	Temporary well screened from 26.0 to 30.0ft BGS. Screen removed and backfilled on June 26, 2013.							
34	Depth:25-27ft BGS							
36	Sudan IV test results:negative							
38	PID Headspace (ppm): 275							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND 
CHEMICAL ANALYSIS 

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH34-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 27, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	ASPHALT/CONCRETE	0.50	BACKFILLED WITH BENTONITE CHIPS	1GP		4.0		0.0
4	SW-SAND (FILL), gravel and rock fragments throughout, low density, tan to dark gray, low moisture			46" JT-082				8.6
6	- 0.4' crushed red brick layer at 5.5ft BGS			2GP		4.2		307
8	SP-SAND (FILL), high density, fine to medium sand, dark gray/black, low moisture	6.75						10.2
10								0.0
12	- 0.4' wood fragments at 11.0ft BGS			3GP		1.0		0.0
14								--
16								0.0
18			▽	4GP		2.0		0.0
20								0.0
22	SW-SAND (native), with gravel/rock fragments, low density, medium sand, tan, high moisture	21.00		5GP		1.5		0.0
24				24.5-25.5" JT-083				0.0
26	- high moisture at 26.5ft BGS			6GP		3.8		0.0
28								0.0
30								0.0
32				7GP		4.0		0.0
34								0.0
36								0.0
38				8GP		3.0		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▽
 CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES GPJ CRA CORP GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH34-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 27, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								24.9
42				9GP		3.7		0.0
44								0.0
46								0.0
48				10GP		2.8		0.0
50								0.0
52				11GP		3.1		0.0
54								0.0
56								0.0
58				12GP		3.0		0.0
60	END OF BOREHOLE @ 60.0ft BGS	60.00						0.0
62	Temporary well screened from 27.5 to 31.5ft BGS. Screen removed and backfilled on June 27, 2013.							
64	Depth: 26.5-28.5ft BGS							
66	Sudan IV test results:negative							
68	PID Headspace (ppm): 0							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH35-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 28, 2013



CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	ASPHALT/PAVEMENT	0.25						0.0
2	SW-SAND (FILL), with gravel and rock, low density, medium sand, tan/brown, low moisture			1GP		4.0		0.0
4								0.0
6	SP-SAND (FILL), high density, fine sand, dark gray/black, low moisture	6.00		2GP		4.1		0.0
8								0.0
10								0.0
12	- 0.2' wood fragments at 11.5ft BGS			3GP		1.9		0.0
14								0.0
16								0.0
18				4GP		1.9		0.0
20								0.0
22								0.0
24				5GP		3.0		0.0
26	SW-SAND (native), with gravel/cobble, low density, medium sand, tan/brown, high moisture	25.00		24.5-28.5 JT-088				0.0
28	- wet at 26.5ft BGS			6GP		2.0		0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.0
32	Temporary well screened from 27.5 to 31.5ft BGS. Screen removed and backfilled on June 28, 2013.							
34	Depth: 26.5-28.5ft BGS							
36	Sudan IV test results:negative							
38	PID Headspace (ppm): 0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND 
 CHEMICAL ANALYSIS 

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH36-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 1, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	PAVEMENT	0.20		0-2 JT-082				1758
2	SW-SAND (FILL), with gravel and cobbles, low density, medium to coarse sand, tan/brown/dark gray, low moisture			1GP		3.5		578
4	- crushed red brick, 0.4" thick at 2.3ft BGS							1327
6	SP-SAND (FILL), medium density, fine sand, dark gray/black, low moisture	5.50		2GP		3.8		124
8								89.4
10								57.7
12				3GP		2.3		33.0
14								0.0
16				4GP		2.8		0.0
18								0.0
20	- perched water 1.5' thick at 20.0ft BGS							0.0
22	SW-SAND (native), with gravel/cobbles, tan	22.00		5GP		3.0		0.0
24								0.0
26				6GP		3.2		0.0
28								0.0
30				30-32 JT-083				0.0
32	- water table, high moisture at 32.0ft BGS			7GP		2.0		0.0
34								0.0
36				8GP		3.0		0.0
38								0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND
 CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH36-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 1, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								0.0
42				9GP		3.1		0.0
44								0.0
46								0.0
48				10GP		3.4		0.0
50								0.0
52				11GP		3.6		0.0
54								0.0
56								0.0
58				12GP		4.0		0.0
60	END OF BOREHOLE @ 60.0ft BGS	60.00						0.0
62	Temporary well screened from 33.0 to 37.0ft BGS. Screen removed and backfilled on July 2, 2013.							
64	Depth: 20-22ft BGS							
66	Sudan IV test results:negative							
68	PID Headspace (ppm): 0							
70	Depth: 32-34ft BGS							
72	Sudan IV test results:negative							
74	PID Headspace (ppm): 0							
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH37-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 2, 2013



CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	PAVEMENT/ASPHALT	0.75						0.0
2	SW-SAND (FILL), with gravel/rock fragments, low density, tan, low moisture	2.80		1GP		3.8		0.0
4	SP-SAND (FILL), trace gravel, high density, fine sand, dark gray/black, low moisture							0.0
6								0.0
8				2GP		4.3		0.0
10								0.0
12	- wood fragments, 0.2' thick at 12.1ft BGS			3GP		2.3		0.0
14								0.0
16	- perched water, 0.25' thick at 16.0ft BGS			4GP		2.2		0.0
18								0.0
20	- perched water, 1.5' thick at 20.2ft BGS							0.0
22	SW-SAND (native), with gravel, low density, tan, medium-high moisture	22.00		5GP		2.5		0.0
24								0.0
26	- water table at 27.0ft BGS			6GP		2.7		0.0
28								0.0
30								0.0
32	CL-CLAY, high density, medium moisture	31.00		7GP		3.0		0.0
34	SW-SAND (native)	32.00						0.0
36								0.0
38				8GP		3.7		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND 
 CHEMICAL ANALYSIS 

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH37-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 2, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								0.0
42				9GP		4.0		0.0
44								0.0
46								0.0
48				10GP		3.7		0.0
50								0.0
52				11GP		3.3		0.0
54								0.0
56								0.0
58				12GP		3.6		0.0
60	END OF BOREHOLE @ 60.0ft BGS	60.00						0.0
62	Temporary well screened from 28.0 to 32.0ft BGS. Screen removed and backfilled on July 8, 2013.							
64	Depth: 18-19ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
66	Depth: 20.5-22.5ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
68	Depth: 27-29ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH38-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 27, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), with gravel/cobbles and silt, medium density, medium sand, brown/gray, low moisture			1GP 24 JT-064		3.8		4113
4								8805
6	SP-SAND (FILL), high density, fine sand, dark gray/black, low moisture	6.00						4373
8				2GP		3.5		269
10	SW-SAND (FILL), with gravel/cobbles and silt, medium density, medium sand, brown/gray, low moisture	8.50						963
12								94.0
14				3GP		1.9		122
16								0.0
18				4GP		2.0		0.0
20								0.0
22	SW-SAND (native), with gravel, cobbles and silt, low density, tan/brown, low moisture	21.00		5GP		3.7		0.0
24								0.0
26								0.0
28	- wet at 27.5ft BGS			25.5-27.5 JT-065 6GP		3.6		0.0
30								0.0
32	CL-CLAY, with silt and sand, high density, high plasticity, gray, medium moisture	30.50		7GP		3.3		0.0
34								0.0
36	SW-SAND, with gravel, cobbles and silt, low density, tan/brown, low moisture	36.00		8GP		3.5		0.0
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER FOUND ▽

CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES GPJ CRA CORP GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH38-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 27, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								0.0
42				9GP		3.8		0.0
44								0.0
46								0.0
48				10GP		1.0		--
50								
52								--
54								
56								
58								--
60	END OF BOREHOLE @ 60.0ft BGS	60.00						
62	Temporary well screened from 28.5 to 32.5ft BGS. Screen removed and backfilled on June 28, 2013.							
64	Depth: 27.5-29.5ft BGS							
66	Sudan IV test results:negative							
68	PID Headspace (ppm): 0							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH39-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 1, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	ASPHALT	0.25						
2	SW-SAND(FILL), little fine gravel, loose, medium-coarse sand, well graded, brown-black, dry - silty at 1.5ft BGS - concrete fragments at 2.0ft BGS	2.50		1GP		4.2		40.5
4	SW-SILTY SAND (FILL), compact, fine-medium sand, trace coarse sand and fine gravel, well graded, black-brown, moist - green glass pieces at 5.5ft BGS - wood fragments at 5.7ft BGS	6.50						4.6
6								12.4
8	SP-SAND (FILL), medium grained, loose, gray, poorly graded, gray, dry			2GP		3.5		4.3
10								0.0
12	- little coarse sand and fine gravel, 2' thick with medium sand at 10.5ft BGS							0.0
14				3GP		2.1		0.0
16								0.6
18				4GP		2.0		0.0
20								0.0
22	- perched water in black sand at 21.0ft BGS			5GP		3.4		0.0
24								

← BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☒
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH39-13
DATE COMPLETED: July 1, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26								0.0
28	ML-SILT, black, compact, damp	28.00		6GP		3.7		0.0
	SW-SAND (native), trace fine gravel, loose, medium-coarse sand, well graded, brown, dry - rocks at 28.5ft BGS	28.50						
		29.00						0.0
30	GC-CLAYEY-SILTY GRAVEL (native), cohesive, low plasticity, tan/off white, dry	30.00						
		30.50						
32	- water table at 30ft BGS							
	SM-SILT/SAND (native), clayey, trace fine gravel, compact, fine sand, well graded, tan/brown, wet			7GP		3.0		0.0
34	SW/GW-SAND AND GRAVEL (native), loose, medium-coarse sand and fine gravel, brown/tan, wet							
	END OF BOREHOLE @ 35.0ft BGS	35.00						
36	Temporary well screened from 31.0 to 35.0ft BGS. Screen removed and backfilled on July 1, 2013.							
38	Depth: 21-23ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
40	Depth: 26-28ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
42	Depth: 30-32ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
44								
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND 
CHEMICAL ANALYSIS 

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH40-13
DATE COMPLETED: June 28, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	ASPHALT/CONCRETE	0.50		1GP		3.9		40.5
4	SW-SAND (FILL), with gravel/cobbles, medium sand, low density, tan/dark gray, low moisture							4.6
6								12.4
8	SP-SAND (FILL), fine sand, high density, dark gray/black, low moisture, silty with increasing depth	7.00		2GP		3.0		4.3
10	- 0.1' wood fragments at 10.3ft BGS							0.0
12				3GP		2.8		0.0
14								0.0
16				4GP		1.8		0.0
18								0.0
20	- high moisture at 20.3ft BGS							0.0
22		22.25		5GP		3.3		0.0
24	SW-SAND (native), with gravel/cobbles, medium sand, low density, tan/gray, high moisture							0.0
26				6GP		3.1		0.0
28								0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32	Temporary well screened from 31.5 to 35.5ft BGS. Screen removed and backfilled on July 2, 2013.							
34	Depth: 20.3-22.3ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND
CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH42-13
DATE COMPLETED: July 1, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	PAVEMENT	0.20						11.3
2	SW-SAND (FILL), with gravel and rock fragments, low density, brown/tan, low moisture	1.50						
4	SP-SAND (FILL), trace gravel/silt, medium density, fine sand, dark gray/black, low moisture			1GP 2-4 JT-089/080		4.0		1273
6								329
8				2GP		4.0		108
10								63.4
12	- perched water, 0.5' thick at 11.5ft BGS							36.1
14				3GP		2.0		29.6
16	CL-CLAY, high plasticity, medium density, dark black, medium moisture	15.50 16.10						6.4
18	SW-SAND (native), with gravel/rocks, low density, tan/brown, low moisture			4GP		2.0		0.0
20								0.0
22	- water table, high moisture at 22.0ft BGS			20-22 JT-081 5GP		3.8		0.0
24								0.0
26				6GP		2.4		0.0
28								0.0
30	ML-SILT (native), with sand and gravel, higher density, brown/tan, high moisture	30.40						0.0
32	SW-SAND (native), with gravel/rocks, low density, tan/brown, low moisture,	32.00		7GP		3.5		0.0
34								0.0
36								0.0
38				8GP		3.9		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH42-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 1, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								0.0
42				9GP		4.0		0.0
44								0.0
46								0.0
48				10GP		2.9		0.0
50								0.0
52				11GP		2.6		0.0
54								8.3
56								0.0
58				12GP		2.1		0.0
60	END OF BOREHOLE @ 60.0ft BGS	60.00						0.0
62	Temporary well screened from 33.0 to 37.0ft BGS. Screen removed and backfilled on July 8, 2013.							
64	Depth: 11.5ft BGS Sudan IV test results:negative PID Headspace (ppm): 36.1							
66								
68	Depth: 22-24ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH43-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 1, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), trace fine gravel, loose, fine to medium to coarse sand, well graded, brown, dry - glass pieces at 2.0ft BGS		BACKFILLED WITH BENTONITE CHIPS	1GP		3.5		0.0
4								0.0
6								0.0
8	ML-SILT (FILL), compact, gray, dry	7.50		2GP		3.1		0.0
10								0.0
12	SW-SILTY SAND (FILL), trace fine gravel, fine to medium sand, some consolidated, tan, black, dry - glass pieces at 11.0ft BGS	10.00		3GP		1.8		0.7
14								0.0
16								0.0
18				4GP		2.0		0.0
20	- perched water at 20.0ft BGS							0.0
22	ML-SILT, compact, gray, moist	21.50						0.0
24	SW/GW-SAND & GRAVEL (native), loose, medium to coarse sand, fine gravel, well graded, tan/brown, dry	22.00		5GP		3.0		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☒
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH43-13

PROJECT NUMBER: 038443-74-02



DATE COMPLETED: July 1, 2013



CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26	- water table, wet at 28.8ft BGS			6GP 26.8-28.8 JC-074		3.6		0.0
28								0.0
30								0.0
32	CL-CLAY, cohesive, dense, low plasticity, trace coarse sand and fine gravel	32.00		7GP		4.7		0.0
34		35.00						
36	END OF BOREHOLE @ 35.0ft BGS							
38	Temporary well screened from 28.5 to 32.5ft BGS. Screen removed and backfilled on July 1, 2013.							
40	Depth: 28.8-30.8ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
42	Depth: 30.8-32ft BGS Sudan IV test results:negative PID Headspace (ppm): 0							
44								
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND 
 CHEMICAL ANALYSIS 

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH44-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 2, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), with gravel/rock fragments, medium to low density, tan/brown, low moisture			1GP 24 JT-084		4.0		205
4								1390
6								254
8				2GP		2.8		53.4
10		10.00						66.7
12	SP-SAND (FILL), trace gravel, high density, fine sand, dark gray/black, low moisture,			3GP		3.2		0.0
14								0.0
16								51.0
18				4GP		1.0		0.0
20	- fill sand has more silt & plasticity at 20.0ft BGS							0.0
22				5GP		1.9		0.0
24								0.0
26	SW-SAND (native), with gravel/rock fragments, medium-low density, medium sand, tan, low moisture	25.50		6GP		3.0		0.0
28								0.0
30								16.6
32				7GP		3.6		224
34	CL-CLAY, fine grained, gray,	33.40						121
36	SW-SAND (native), with gravel/rock fragments, medium-low density, medium sand, tan, low moisture	35.80		35.5, 37.5 JT-085 8GP		4.3		23.3
38	- water table at 37.5ft BGS							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER FOUND ▽

CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH44-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 2, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								103
42				9GP		3.8		0.0
44								0.0
46								0.0
48				10GP		4.0		0.0
50								0.0
52				11GP		3.8		0.0
54								0.0
56								0.0
58				12GP		2.8		0.0
60	END OF BOREHOLE @ 60.0ft BGS	60.00						0.0
62	Temporary well screened from 38.5 to 42.5ft BGS. Screen removed and backfilled on July 2, 2013.							
64	Depth: 37.5-39.5ft BGS							
66	Sudan IV test results:negative							
68	PID Headspace (ppm): 103							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH46-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 2, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	ASPHALT	0.50	 BACKFILLED WITH BENTONITE CHIPS	1GP		4.2		5.9
4	SW/GW-SAND/GRAVEL (FILL), loose, medium-coarse sand, fine gravel, well graded, tan/brown, dry	4.00		2GP		4.2		0
6	SP-SAND (FILL), medium grained, poorly graded, loose, gray, dry							6.9
8								5.1
10	- dark brown, sand at 10.0ft BGS							5.1
12	- coarse sand/fine gravel 0.5" thick at 11.5ft BGS			3GP		2.4		13.1
14								4.5
16				4GP		2.5		3.9
18								3.2
20	- perched water at 19.8ft BGS							0.0
22	- coarse sand, black, odor, rainbow sheen, wet at 22.0ft BGS			5GP		3.0		236.2
24	CL-CLAY (FILL), silty, cohesive, low plasticity, black-gray, damp	24.00						24.6
26	SP-SAND (FILL), loose, medium sand, poorly graded, brown, dry	25.00						397
28	SP-SILTY SAND (native), loose, medium sand, little to some fine sand, poorly graded, dry	25.70		6GP		2.6		222
30	SW-SILTY SAND (native), fine to medium to coarse sand, little fine gravel, well graded, brown	26.50						234
32	CL-CLAY, silty, little coarse sand, cohesive, low plasticity, tan/brown, dry	31.50		7GP		3.7		170
34	GW/SW-SAND/GRAVEL, loose, medium-coarse sand, fine gravel, well graded, dark gray, wet	32.50						--
36	END OF BOREHOLE @ 35.0ft BGS	35.00						
38	Temporary well screened from 31.0 to 35.0ft BGS. Screen removed and backfilled on July 2, 2013.							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH46-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 2, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	"N" VALUE	PID (ppm)
40	Depth: 19.8-21.8ft BGS Sudan IV test results: positive PID Headspace (ppm): 236.2							
42	Depth: 30-31.5ft BGS Sudan IV test results: positive PID Headspace (ppm): 170							
44								
46	Depth: 32.5-34.5ft BGS Sudan IV test results: positive PID Headspace (ppm): 170							
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH46B-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 2, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), loose, fine to medium sand, well graded, brown/tan, dry	1.50	BACKFILLED WITH BENTONITE CHIPS	1GP		4.0		0.0
4	SP-SAND (FILL), loose, fine sand, little medium sand, poorly graded, brown, dry							0.0
	- gray sand at 4.0ft BGS							0.0
6								0.0
8				2GP		3.8		0.0
10								0.0
12								0.0
14				3GP		2.8		0.0
16								0.0
18	- white sand with some consolidated sand at 17.0ft BGS			4GP		2.8		0.0
20		19.50	▽					0.0
22	SM-SAND/SILT (native), compact, fine sand, brown, dry			5GP		2.5		0.0
24								0.0
26	ML-SILT, compact, brown, dry	24.50						0.0
28				6GP		2.2		0.0
30	SW/GW-SAND/GRAVEL (native), loose, medium to coarse sand, fine gravel, well graded, brown, wet	28.00						0.0
32				7GP		3.0		0.0
34								0.0
36	END OF BOREHOLE @ 35.0ft BGS	35.00						
38	Temporary well screened from 29.0 to 33.0ft BGS. Screen removed and backfilled on July 8, 2013.							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH46B-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 2, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40	Depth: 28-30ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH47-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 28, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	ASPHALT/PAVEMENT	0.40						
2	SW-SAND (FILL), with gravel/rock, low density, medium sand, tan and dark gray in areas, low moisture			1GP		3.3		0.3
4								1455
6								173
8	SP-SAND (FILL), trace gravel and silt, high density, fine sand, dark gray/black, low moisture	6.50		2GP		4.8		309
10	- 0.25' wood fragments at 10.5ft BGS							19.0
12	- 0.25' wood fragments at 12.5ft BGS			3GP		3.1		0.0
14								33.1
16								42.2
18				4GP		3.0		0.0
20								0.0
22	- 1.2' perched water, high moisture in sand at 21.5ft BGS			5GP		2.3		0.0
24								0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13




STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
 PROJECT NUMBER: 038443-74-02
 CLIENT: PRP GROUP
 LOCATION: MORaine, OH

HOLE DESIGNATION: BH47-13
 DATE COMPLETED: June 28, 2013
 DRILLING METHOD: GEOPROBE
 FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26	SW-SAND (native), with gravel/rock, low density, medium sand, tan, high moisture - wet at 26.5ft BGS	25.00		6GP		2.8		0.0
28								0.0
30		30.00						0.0
30	END OF BOREHOLE @ 30.0ft BGS							
32	Depth: 4-6ft BGS Sudan IV test results: negative PID Headspace (ppm): 173							
34	Depth: 21.5-23ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
36	Depth: 26.5-28.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
38								
40								
42								
44								
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH48-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 28, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), loose, fine to medium to coarse sand, well graded	1.00	BACKFILLED WITH BENTONITE CHIPS	1GP		3.8		2.2
4	CL-CLAY (FILL), trace fine gravel, silt, cohesive, low plasticity, brown, dry							0.2
6	SP-SAND (FILL), loose, fine sand, poorly graded, gray, dry	5.50		2GP		3.8		11.2
8								10.2
10	- wood fragments at 9.8ft BGS							2.2
12				3GP		2.0		385
14								98
16	- perched water, glass pieces from 15.0 to 17.0ft BGS			4GP		2.4		16.8
18								6.5
20	- rock/large gravel at 19.6ft BGS	19.80						2.3
22	SM-SILT/SAND (FILL), compact, fine sand, well graded, brown, dry	21.00		5GP		3.2		1.0
24	SW/GW-SAND/GRAVEL (native), loose, fine, medium and coarse sand, fine gravel, well graded, brown/tan, dry							129

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH48-13
DATE COMPLETED: June 28, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26	- wet at 27.0ft BGS			6GP		3.0		0
28	- dark gray, sheen, odor from 28.8 to 30.0ft BGS							14.3
30								
32	CL-CLAY, trace fine gravel, little coarse sand, cohesive, brown, dry	31.00		7GP		4.0		--
34	SW-SAND (native), loose, medium to coarse sand, well graded, brown, wet	33.80						--
	END OF BOREHOLE @ 35.0ft BGS	35.00						
36	Depth: 27-29ft BGS Sudan IV test results: slight positive PID Headspace (ppm): 30							
38	Depth: 30-31ft BGS Sudan IV test results: slight positive PID Headspace (ppm): 14.3							
40	Depth: 33.8-35ft BGS Sudan IV test results: negative PID Headspace (ppm): -							
42								
44								
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH48B-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 8, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	ASPHALT	0.25						
	SW- SILTY SAND (FILL), trace fine gravel, loose, fine to medium to coarse sand, well graded, brown, dry	1.30						
2	SP-SILTY SAND (FILL), slightly compact, fine sand, little medium sand, black, dry			1GP		3.0		9.1
4	- red clay brick pieces at 4.0ft BGS							7.1
								8.4
6								
8				2GP		4.3		23.2
								36.1
10								
12				3GP		2.2		16.7
14								10.7
16								0.2
18				4GP		0.3		30.6
20								27.3
22								0.2
24	SW/GW-SILTY SAND/GRAVEL (native), loose, medium to coarse sand, fine to coarse gravel, tan/brown, dry	20.60		5GP		1.2		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH48B-13

PROJECT NUMBER: 038443-74-02


DATE COMPLETED: July 8, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26	- water table, wet at 29.0ft BGS	31.00		6GP	2.5	3.5		0.0
28								0.0
30								0.0
32	SW-SILTY SAND (native), slightly compact, medium to coarse sand, little fine sand, brown, little fine gravel, wet	31.00		7GP				0.0
34								
36	END OF BOREHOLE @ 35.0ft BGS	35.00						
38	Temporary well screened from 30.0 to 34.0ft BGS. Screen removed and backfilled on July 8, 2013.							
40	Depth: 29-31ft BGS							
42	Sudan IV test results: negative							
44	PID Headspace (ppm): 0							
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH49-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 18, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	SM-SAND/SILT (FILL), compact, fine sand, trace coarse sand, brown, dry							
2	ML-SILT (FILL), trace fine sand, slightly compact, gray, dry	1.50		1GP		3.2		3.2
4								0.4
6								0.0
8	- 1" fine sand seam at 8.0ft BGS			2GP		2.7		3.3
10								2.2
12	- red clay brick fragments at 11.0ft BGS							0.0
14	- 3" long red clay brick fragments at 12.0ft BGS			3GP		3.0		0.0
16								2.5
18	- perched water in silt zone from 15.0 to 16.0ft BGS			4GP		3.1		0.0
20	- fine gravel and medium to coarse sand at 19.0ft BGS	19.50						0.0
22	SW/GW-SAND AND GRAVEL (native), loose, fine, medium and coarse sand, fine gravel, well graded, brown/tan, dry			5GP		3.0		0.0
24								0.0

BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH49-13
DATE COMPLETED: June 18, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26				6GP		3.5		0.0
28								0.0
30	CL-SANDY CLAY (native), trace fine gravel, cohesive, low plasticity, brown, damp	29.10						0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32	Temporary well screened from 22.5 to 25.5ft BGS. Screen removed and backfilled on June 18, 2013.							
34	Depth: 15-16ft BGS Sudan IV test results: negative PID Headspace (ppm): 2.5							
36	Depth: 21.5-23.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
38	Depth: 27.1-29.1ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
40								
42								
44								
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH50-13
DATE COMPLETED: June 18, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SM-SAND/SILT (FILL), compact, well graded, fine sand, brown, dry - silty sand, gray at 2.0ft BGS			1GP		4.0		1.2
4								1.2
6								11.9
8				2GP		1.8		3.3
10	- 3" fine to medium sand seam at 9.0ft BGS							21.1 32.2
12				3GP		1.0		
14								2.3
16	- little moisture at 15.0ft BGS							8.7
18				4GP		2.1		5.1
20	SW/GW-SAND/GRAVEL (native), trace silt, loose, fine, medium and coarse sand, fine gravel, tan/brown, dry	18.80						3.4
22				5GP		2.5		22.5
24	- rock fragments at 24.3ft BGS - Water table and odor at 24.5ft BGS							5.3 163
26								171
28				6GP		2.2		27 39
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32	Depth: 24.5-26.5ft BGS Sudan IV test results: slight positive PID Headspace (ppm): 171							
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH50B-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 21, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), with rock/gravel, low density, tan, low moisture	1.25		1GP		3.6		1.8
4	SP-SAND (FILL), fine grained, high density, dark gray, low moisture							2.0
6								0.9
8		8.00		2GP		3.2		0.0
10	SW-SAND (FILL), with gravel/rock fragments, medium density, low moisture							0.0
12		12.00		3GP		2.5		0.0
14	SW-SAND (native), with rock fragments/gravel, medium sand, low density, low moisture							0.0
16								0.0
18				4GP		3.1		0.0
20								0.0
22				5GP		3.7		0.0
24	- wet at 23.0ft BGS							4.6
26		26.00		6GP		3.5		
28	END OF BOREHOLE @ 26.0ft BGS							
30	Depth: 23-25ft BGS Sudan IV test results: negative PID Headspace (ppm): 4.6							
32								
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH51-13
DATE COMPLETED: June 21, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	TOPSOIL/ROCK	0.25						
2	SW-SAND (FILL), with gravel/rock fragments, medium sand, low moisture	1.20		0-2 JT-027				338
	SP-SAND (FILL), high density, fine sand, dark gray	3.50		1GP		3.5		20.5
4	SW-SAND (FILL), with gravel/rock fragments, medium sand, low moisture							35.7
6								20.4
8		8.20		2GP		2.1		18.6
10	SW-SAND (native), with gravel/rock, low density, medium sand, tan, low moisture							44.1
12				3GP		3.0		17.3
14								7.1
16				4GP		4.0		9.6
18								3.3
20				19.3-20.3 JT-028				4.4
22	- wet at 21.3ft BGS			5GP		3.0		11.5
24								11.3
26				6GP		2.8		2.6
28								14.2
30								0.0
32	ML-SILT (native), with sand, trace gravel, high density, gray, high moisture	31.50		7GP		4.0		0.0
34								0.0
36	SW-SAND (native), with gravel/rock, low density, medium sand, tan, low moisture	35.20						0.0
38	- increase in silt content from 38.0 to 40.0ft BGS			8GP		4.0		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH51-13
DATE COMPLETED: June 21, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								0.0
42				9GP		3.6		0.0
44								0.0
46								0.0
48				10GP		3.3		0.0
50								0.0
52				11GP		2.0		0.0
54								0.0
56	ML-SILT (till), with sand and gravel, high density, gray, high moisture	55.00						0.0
58	SW-SAND (native), with gravel/rock, low density, medium sand, tan, low moisture	58.00		12GP		4.1		0.0
60	END OF BOREHOLE @ 60.0ft BGS	60.00						0.0
62	Temporary well screened from 22.5 to 26.5ft BGS. Screen removed and backfilled on June 21, 2013.							
64	Depth: 21.3-23.3ft BGS							
66	Sudan IV test results: negative							
68	PID Headspace (ppm): 11.5							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ☐
CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH52-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 19, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	"N" VALUE	PID (ppm)
2	SW-SAND (FILL), loose, medium to coarse sand, well graded, brown, dry, dirty - glass fragments at 0.7ft BGS	1.40	BACKFILLED WITH BENTONITE CHIPS	1GP		3.0		0.8
4	SM-SILT/SAND (FILL), cohesive, fine sand, dark gray, very moist							0.0
6	SW-SAND (FILL), trace silt, loose, fine, medium and coarse sand, well graded, dark brown to brown, moist - 4" wood fragments at 5.8ft BGS	5.20		2GP		2.5		5.3
8								0.3
10	- red silty sand at 9.6ft BGS							0.0
12	ML-CLAYEY SILT (FILL), trace medium sand, cohesive, dark brown, dry	10.50		3GP		2.2		0.0
14	SW-SAND (native), trace fine gravel, loose, fine, medium and coarse sand, well graded, tan/brown, dry	11.70						0.0
16				4GP		3.5		0.0
18								0.5
20								0.0
22								0.0
24	- wet at 23.8ft BGS					3.5		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND
 CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH52-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 19, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26				6GP	2.7			0.0
28								0.0
30								0.0
32	END OF BOREHOLE @ 30.0ft BGS Temporary well screened from 24.8 to 28.8ft BGS. Screen removed and backfilled on June 19, 2013. Depth: 23.8-25.8ft BGS Sudan IV test results: negative PID Headspace (ppm): 0	30.00						
34								
36								
38								
40								
42								
44								
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH53-13
DATE COMPLETED: June 18, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	TOPSOIL/ROCK	0.25		0-2' JT-001				3442
2	SW-SAND (FILL), with gravel/rock fragments, low density, brown, low moisture - 2' silty sand, dark gray/black at 2.3ft BGS			1GP		3.0		122
4								102
6	SM-SILTY SAND (FILL), fine and medium grained, medium moisture - 1' perched water layer at 6.0ft BGS - 0.6' layer crushed rock, silty clay, glass bottle pieces, orange at 7.0ft BGS	6.00		2GP		2.4		73.4
8								73.6
10								22.8
12	SW-SAND (native), trace gravel/rock fragments, medium sand, tan/light brown, low moisture	11.00		3GP		3.2		17.6
14								18.4
16								20.3
18				4GP		2.9		15.5
20				19-21' JT-002				0.0
22	- very wet at 21.0ft BGS			5GP		2.9		0.0
24								0.0
26	END OF BOREHOLE @ 26.0ft BGS	26.00		6GP				0.0
28	Temporary well screened from 22.0 to 26.0ft BGS. Screen removed and backfilled on June 18, 2013.							
30	Depth: 6-7ft BGS Sudan IV test results: negative PID Headspace (ppm): 73.4							
32	Depth: 21-23ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND
CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH54-13
DATE COMPLETED: June 18, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.50	TOPSOIL/ROCK	0.50	<p>BACKFILLED WITH BENTONITE CHIPS</p>					
2	SW-SILTY GRAVELLY SAND (FILL), trace clay/rock, medium density, low plasticity, dark gray, medium moisture			1GP		3.3		67.9
4	- 0.25' red brick fragments at 1.1ft BGS							57.2
6				4.6' JT-003				276
6.30	SM-SILTY SAND (FILL), trace gravel, high density, low plasticity, dark gray, medium moisture	6.30						
7.30		7.30		2GP		2.0		20.8
8	SW-SILTY GRAVELLY SAND (FILL), trace clay/rock, medium density, low plasticity, dark gray, medium moisture							103
10	- 1.5' perched water layer at 10.0ft BGS							11.8
12				3GP		2.0		12.7
14								10.5
16			<p>W</p>					
16.60	SW-SAND (native), with gravel/rock fragments, medium sand, low moisture	16.60		4GP		3.3		23.4
18								13.6
20	- Wet at 20.5ft BGS			18.5-20.5 JT-004				0.8
22								1.5
24				5GP		2.3		2.2
26	END OF BOREHOLE @ 26.0ft BGS	26.00						
28	Temporary well screened from 21.5 to 25.5ft BGS. Screen removed and backfilled on June 18, 2013.							
30	Depth: 10-12ft BGS							
32	Sudan IV test results: negative PID Headspace (ppm): 11.8							
34	Depth: 20.5-22.5ft BGS							
36	Sudan IV test results: negative PID Headspace (ppm): 1.5							
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND
CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH55-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 18, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SILTY SAND (FILL), loose, fine, medium and coarse sand, well graded, dark brown to brown black, dry	2.00	BACKFILLED WITH BENTONITE CHIPS	1GP 24 JC-011		3.0		20.1
4	ML-SANDY SILT (FILL), loose, trace fine sand, dark gray to gray, damp	5.20						682
6	SP-SILTY SAND (FILL), slightly compact, medium sand, little to some fine sand, poorly graded, gray, moist			2GP		3.8		346
8								16.6
10	- orange staining at 9.9ft BGS							4.2
12	SW-SAND (native), trace fine gravel, loose, fine, medium and coarse sand, well graded, tan/brown, dry	11.00		3GP		4.1		12.1
14								3.5
16				4GP		4.0		72 25
18								0.0
20								0.0
22			▽	5GP 22.5-24.5 JC-012		3.7		0.0
24	- Wet at 24.5ft BGS							0.0
26				6GP		3.0		0.0
28								0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.0
32	Temporary well screened from 25.5 to 29.5ft BGS. Screen removed and backfilled on June 18, 2013.							
34	Depth: 24.5-26.5ft BGS							
36	Sudan IV test results: negative							
38	PID Headspace (ppm): 0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▽
 CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH56-13
DATE COMPLETED: June 18, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	ASPHALT							0.0
2	SP-SAND (FILL), loose, medium sand, trace coarse sand, poorly graded, brown, dry			1GP		2.2		0.0
4								0.0
4.70	SM-SILT/SAND (FILL), fine sand, little medium sand, well graded, gray, damp			2GP		2.1		0.0
6								0.0
8								0.0
10	- brown at 9.7ft BGS			3GP		3.2		0.0
10.00	SW/GW-SAND/GRAVEL (native), loose, fine, medium and coarse sand, fine gravel, well graded, tan/brown, dry							0.0
12								0.0
14								0.0
16				4GP		3.7		0.0
18								0.0
20								0.0
22				21-23 JC-013 5GP		3.4		0.0
24	- Wet at 23.0ft BGS							0.0
24	- increase in fine gravel at 24.0ft BGS							0.0
26								0.0
28				6GP		3.0		0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.0
32	Temporary well screened from 24.0 to 28.0ft BGS. Screen removed and backfilled on June 19, 2013.							
34	Depth: 23-25ft BGS							
36	Sudan IV test results: negative							
36	PID Headspace (ppm): 0							
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH57-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 18, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	TOPSOIL/ROCK							4.0
2	SW-SAND (FILL), with gravel/rock, medium sand, low density, tan to brown, low moisture - dark gray, no odor at 1.0ft BGS	1.00	BACKFILLED WITH BENTONITE CHIPS	1GP		1.3		2.6
4								0.0
6	SW-SAND (native), with gravel/rock, medium sand, low density, tan to brown, low moisture	6.50		2GP		3.5		0.0
8								0.0
10								7.1
12				3GP		3.5		0.0
14								0.0
16				4GP		3.0		0.0
18								0.0
20								0.0
22	- Wet at 23.0ft BGS			21-23 JT-005 5GP		3.5		0.0
24								0.0
26				6GP		2.8		0.0
28								0.0
30								0.0
32	ML-SANDY SILT (till), trace gravel/rock, high plasticity, light brown to dark gray, high moisture	31.00		7GP		4.3		0.0
34	SW-SAND (native), with gravel/rock, medium sand, low density, tan to brown, high moisture	33.30						0.0
36								0.0
38				8GP		3.3		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND
 CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH57-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 18, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								0.0
42				9GP		3.7		0.0
44								0.0
46								0.0
48				10GP		3.6		0.0
50								0.0
52				11GP		0.0		0.0
54								0.0
56								0.0
58				12GP		2.3		0.0
60	END OF BOREHOLE @ 60.0ft BGS	60.00						0.0
62	Temporary well screened from 24.0 to 28.0ft BGS. Screen removed and backfilled on June 19, 2013.							
64	Depth: 23-25ft BGS							
66	Sudan IV test results: negative							
68	PID Headspace (ppm): 0							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH58-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 19, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	ASPHALT/ROCK							0.0
2	SW-SAND (FILL), with gravel/rock fragments, fine sand, medium density, dark gray/black, low moisture			1GP		3.5		0.0
4								0.0
6								0.0
8				2GP		0.8		0.0
10	ML-SANDY GRAVELLY SILT (FILL), dark brown, medium moisture	10.00						--
12	SW-SAND (native), with gravel/rock fragments, medium sand, tan, low moisture	11.00		3GP		3.0		0.0
14								0.0
16				4GP		3.5		0.0
18								0.0
20								0.0
22				5GP		4.0		0.0
24	- Wet at 23.5ft BGS			21.5-23.5 JT-009/ JT-010				0.0
26								0.0
28				6GP		3.1		0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.0
32	Temporary well screened from 24.5 to 28.5ft BGS. Screen removed and backfilled on June 20, 2013.							
34	Depth: 21.5-23.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND
 CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH59-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 19, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.20	ASPHALT							
2	SW-SILTY GRAVELLY SAND (FILL), medium sand, medium density, brown/orange, low moisture - 0.2' glass shards at 0.9ft BGS			1GP 2-4' JT-006		3.0		164
4								179
5.50	SP-SAND (FILL), fine sand, dark gray, high moisture - high density, 1.2' perched water at 7.5ft BGS		BACKFILLED WITH BENTONITE CHIPS	2GP		3.5		154
8.30	SW-SAND (native), with gravel/rock fragments, medium sand, tan/light brown, low moisture							61.8
10								56.7
12				3GP		3.5		19.8
14								7.7
16								55.7
18				4GP		3.5		65.6
20								42.1
22	- Wet at 22.5ft BGS			20.5-22.5 JT-007 5GP		3.8		36.8
24								374

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND
 CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH59-13
DATE COMPLETED: June 19, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26								24.0
28				6GP		2.8		4.5
30								3.8
32	END OF BOREHOLE @ 30.0ft BGS Temporary well screened from 23.5 to 27.5ft BGS. Screen removed and backfilled on June 20, 2013. Depth: 7.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 61.8 Depth: 22.5-24.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 374	30.00						
34								
36								
38								
40								
42								
44								
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ☐
CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH60-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 19, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	TOPSOIL/ROCK	0.25						
2	SW-SAND (FILL), with gravel/rock fragments, medium density, fine sand, dark gray, low moisture			1GP		3.0		0.0
4	- 0.2' brick fragments at 1.8ft BGS							0.0
6	- 1' perched water in silty sand at 5.8ft BGS			2GP		2.4		0.0
8								0.0
10								0.0
12	SW-SAND (native), with rock/gravel, medium sand, tan, low moisture	10.50		3GP		3.5		0.0
14								0.0
16				4GP		3.8		0.0
18								0.0
20								0.0
22	- Wet at 22.0ft BGS			5GP		3.4		0.0
24								0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼
 CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
 PROJECT NUMBER: 038443-74-02
 CLIENT: PRP GROUP
 LOCATION: MORaine, OH

HOLE DESIGNATION: BH60-13
 DATE COMPLETED: June 19, 2013
 DRILLING METHOD: GEOPROBE
 FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26								0.0
28				6GP		2.8		0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.0
32	Temporary well screened from 23.0 to 27.0ft BGS. Screen removed and backfilled on June 19, 2013.							
34	Depth: 5.75-9.75ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
36	Depth: 22-24ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
38								
40								
42								
44								
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH61-13
DATE COMPLETED: June 19, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	ASPHALT	0.25						0.0
1.00	SM-SILTY SAND (FILL), compact, trace coarse sand, dark gray/black, dry	1.00						0.0
2	SW-SAND (FILL), trace fine gravel, some fine sand and silt, medium to coarse sand, slightly compact, well graded, dry			1GP		2.7		0.0
4								0.0
6	- concrete fragments at 6.0ft BGS							0.0
7.00	SW/GW-SAND/GRAVEL (native), loose, fine, medium and coarse sand, fine gravel,	7.00		2GP		2.0		0.0
8								0.0
10	- rock fragments at 11.0ft BGS							0.0
12				3GP		3.6		0.6
14								0.0
16	- rock fragments at 16.0ft BGS							0.0
18	- rock fragments at 17.0ft BGS			4GP		4.0		0.0
20								0.0
22	- rock fragments at 21.0ft BGS							0.0
24	- Wet at 23.2ft BGS			5GP 21.2-23.2 JC-019		4.0		1.0
26								0.0
28				6GP		2.0		0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.0
32	Temporary well screened from 24.2 to 28.2ft BGS. Screen removed and backfilled on June 19, 2013.							
34	Depth: 23.2-25.2ft BGS							
36	Sudan IV test results: negative							
38	PID Headspace (ppm): 1.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND 
CHEMICAL ANALYSIS 

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH62-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 19, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.50	ASPHALT	0.50	BACKFILLED WITH BENTONITE CHIPS					22.0
1.00	SW-SAND (FILL), with gravel/rock fragments, medium sand, low density, dark gray, low moisture	1.00		1GP		3.0		21.8
1.60	SP-SAND (FILL), fine sand, dark gray/black, low moisture	1.60						23.4
	SW-SAND (FILL), with gravel/rock fragments, medium sand, low density, dark gray, low moisture							0.0
	- 0.2' red brick fragments at 2.6ft BGS			2GP		1.7		0.6
								0.0
								0.0
				3GP		2.8		0.0
								0.0
								0.0
			WATER FOUND	4GP		3.3		0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
			WATER FOUND	5GP		3.8		1.1
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
			WATER FOUND	6GP		3.8		0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
			WATER FOUND	7GP		3.0		0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
			WATER FOUND	8GP		4.3		0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER FOUND

CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH62-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 19, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40	SW-SAND (native), with gravel, medium sand, low density, tan, low moisture			9GP		2.8		0.0
42								0.0
44								0.0
46								0.0
48	CL-CLAY (till), high density, high plasticity, brown/gray, high moisture	51.80 52.60		10GP		3.1		0.0
50								0.0
52								0.0
54								0.0
56	SW-SAND, with gravel, medium sand, low density, tan, low moisture			11GP		3.0		0.0
58								0.0
60								0.0
62								0.0
64	END OF BOREHOLE @ 60.0ft BGS	60.00		12GP				--
66								--
68								--
70								--
72	Temporary well screened from 24.5 to 28.5ft BGS. Screen removed and backfilled on June 20, 2013.							--
74								--
76								--
78								--

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH63-13
DATE COMPLETED: June 20, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	GRAVEL	0.25						
1.00	SW-SAND (FILL), loose, medium-coarse sand, trace fine sand and fine gravel, well graded	1.00						1
2	ML-SILT (FILL), compact, dark gray, dry			1GP		4.0		11
4	SM-SAND/SILT (FILL), slightly compact, fine sand, well graded, dark brown/dark gray	4.00						22.1
6				2GP		2.0		2.3
8								1.3
10	- glass at 9.7ft BGS - silt, moist at 9.9ft BGS	10.00						2.2
12	SW-SAND (native), loose, fine-medium-coarse sand, little to some fine gravel, well graded, tan/off-white/brown, dry			3GP		3.0		0.8
14								8.0
16				4GP		4.0		2.3
18								0.4
20								0.0
22	SP-SAND (native), loose, medium sand, trace to little coarse sand, poorly graded, brown, dry	22.00 22.50		5GP		3.0		0.0
24	GW/SW-GRAVEL/SAND (native), loose, fine gravel, medium-coarse sand, brown, wet - water table/wet at 25.0ft BGS			23-25 JC-020				0.0
26								0.0
28				6GP		2.5		0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.0
32	Temporary well screened from 26.0 to 30.0ft BGS. Screen removed and backfilled on June 20, 2013.							
34	Depth: 25-27ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND
CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH64-13
DATE COMPLETED: June 19, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	ASPHALT	0.25						0.0
2	SP-SAND (FILL), trace silt, slightly compact, fine grained, - glass pieces at 2.0ft BGS			1GP		3.0		
4								1.6
5.20	SW-SAND (FILL), trace silt, trace fine gravel, little to some coarse sand, fine to medium sand, dark gray/brown, dry	5.20		2GP		2.5		0.8
6								2.2
8								
9.20	SW-SAND (native), little to some fine gravel, loose, fine, medium and coarse sand, well graded, tan/brown, dry	9.20		3GP		3.8		0.3
10								0.2
12								
14								1.7
16				4GP		4.0		2.6
18								2.7
20								0.8
22								0.0
24	- increase in fine to coarse gravel, wet at 24.0ft BGS			5GP 22-24' JC-018		3.4		0.0
26								0.0
28				6GP		2.0		0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.0
32	Temporary well screened from 25.0 to 29.0ft BGS. Screen removed and backfilled on June 19, 2013.							
34	Depth: 24-26ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND
CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH65-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 20, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	TOPSOIL	0.25						0.5
2	SW/GW-SAND/GRAVEL (FILL), loose, fine to medium to coarse sand, fine gravel, well graded, brown/tan, dry	2.00		1GP		3.5		0.0
4	- yellow/orange/red staining at 2.1ft BGS							0.0
6	SP-SAND (FILL), trace silt, compact, fine sand, poorly graded, black, dry	6.50		2GP		2.7		0.0
8	CL-CLAY (FILL), silty, cohesive, soft, damp, dark gray/black							0.0
10	- glass, medium sand at 9.8ft BGS	10.00		3GP		3.0		0.0
12	SW/GW-SAND/GRAVEL (native), loose, fine to medium to coarse sand, fine gravel, well graded, brown/tan, dry							0.0
14								0.0
16				4GP		3.9		1.1
18								1.1
20								0.9
22				5GP 22.1-24.1 JC-031		3.7		0.8
24	- water table/wet at 24.1ft BGS							0.0
26				6GP		2.8		0.0
28								0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32	Temporary well screened from 25.1 to 29.1ft BGS. Screen removed and backfilled on June 20, 2013.							
34	Depth: 24.1-26.1ft BGS							
36	Sudan IV test results: negative							
38	PID Headspace (ppm): 0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND
 CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH66-13

PROJECT NUMBER: 038443-74-02

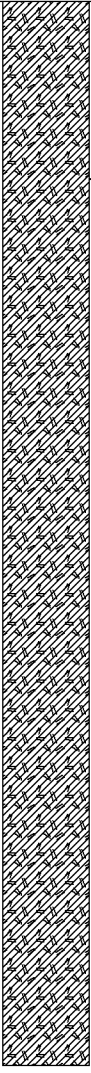
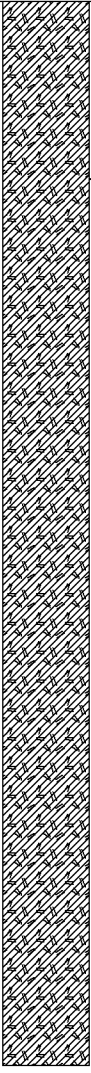
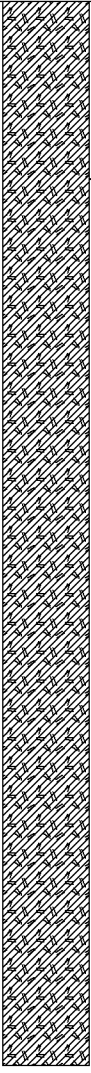
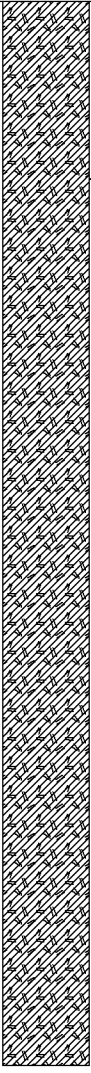
DATE COMPLETED: June 26, 2013



CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), loose, medium and coarse sand, well graded, dark gray, dry	2.00		1GP		4.0		154
4	SP-SAND (FILL), loose, fine grained, little medium sand, poorly graded, black, dry, odor							66
6				2GP		3.5		132.9
8								169
10		22.00		3GP		3.0		492
12								570
14				4GP		3.0		392
16								342
18		30.00		5GP		3.5		47
20								68
22	SW/GW-SAND/GRAVEL (native), loose, medium and coarse sand, fine gravel, well graded, brown, dry			6GP		3.0		13.2
24	- cobble limestone at 23.5ft BGS							1.8
26	- water table, wet at 24.0ft BGS	30.00						1.1
28								0.5
30	- coarse gravel at 29.0ft BGS							0.5
32	END OF BOREHOLE @ 30.0ft BGS							
34	Temporary well screened from 25.0 to 29.0ft BGS. Screen removed and backfilled on June 26, 2013.							
36	Depth: 24-26ft BGS							
38	Sudan IV test results: negative							
	PID Headspace (ppm): 1.1							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND 
 CHEMICAL ANALYSIS 

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH67-13
DATE COMPLETED: June 20, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), loose, fine sand, trace-little coarse sand, well graded, dark brown/tan-brown, dry			1GP		4.0		53.7
4	- silt increase, trace fine gravel at 4.0ft BGS							131
6	SM-SAND/SILT (FILL), compact, fine sand, black, dry	5.00						14.8
8	- glass pieces at 7.0ft BGS			2GP 7-8 JC-032		4.0		25.5
10	SW-SAND (FILL), loose, trace silt, fine and medium sand, well graded, dark gray-off white	9.50						390
12	- concrete at 10.1ft BGS							286
14				3GP		2.0		21.9
16								14.7
18				4GP		2.0		7.8
20								5.3
22	SW/GW-SAND/GRAVEL (native), medium and coarse sand, fine gravel, well graded, brown, dry	20.00						0.8
24	- water table/wet at 23.0ft BGS			21-23 JC-033 5GP		2.5		0.6
26								0.4
28	SW-SAND (native), trace fine gravel, loose, medium and coarse sand, well graded, brown, wet	26.50		6GP		2.5		0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.0
32	Temporary well screened from 24.0 to 28.0ft BGS. Screen removed and backfilled on June 21, 2013.							
34	Depth: 23-25ft BGS							
36	Sudan IV test results: negative							
38	PID Headspace (ppm): 0.6							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND
CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH68-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 19, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	GP-GRAVEL (FILL)	0.25	BACKFILLED WITH BENTONITE CHIPS					
1.50	SP-SILTY SAND (FILL), loose, medium sand, trace fine sand, well graded, black, dry	1.50						237
2.00	ROCK FRAGMENTS (FILL)	2.00		1GP		3.1		
4.0	SW-SAND (FILL), trace fine gravel, fine, medium and coarse sand, well graded, black to dark brown, dry, dirty							4.9
6.0								6.3
8.0				2GP		2.9		1.4
9.00		9.00						0.8
10.00	SP-SAND (FILL), medium sand, trace coarse sand and gravel, poorly graded, black, moist - perched water, slight odor from 9.5 to 14.5ft BGS	10.00						
12.0	SW-SAND (native), loose, little fine gravel, fine, medium and coarse sand, well graded, gray/off-white/tan, moist			3GP		3.2		30.5
14.0								52.2
16.0								27.7
17.00		17.00						35.2
17.30	ROCK FRAGMENTS, and flour	17.30		4GP		3.6		
18.0	SP-SAND (native), loose, medium sand, trace coarse sand, poorly graded, brown, dry, slight odor							22.1
20.00	SW/GW-SAND/GRAVEL (native), loose, fine, medium and coarse sand, fine gravel, well graded, gray, moist	20.00						14.2
22.0								
24.0	- wet at 23.5ft BGS - rock fragments at 24.5ft BGS			5GP 21.5-23.5 JC-018		4.0		8.6

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND
 CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH68-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 19, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26				6GP	3.0			0.7
28								0.4
30								0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32	Temporary well screened from 24.5 to 28.5ft BGS. Screen removed and backfilled on June 20, 2013.							
34	Depth: 9-10ft BGS Sudan IV test results: negative PID Headspace (ppm): 0.8							
36	Depth: 13-14ft BGS Sudan IV test results: positive PID Headspace (ppm): 52.2							
38	Depth: 23.5-25.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 8.6							
40								
42								
44								
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☒
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH69-13
DATE COMPLETED: June 21, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	ASPHALT	0.25						
2	SW-SAND (FILL), trace silt, fine to medium sand, well graded, dark brown/black, dry			1GP		2.5		1.5
4								1.1
6	- perched water from 5.0 to 6.0ft BGS							1.3
6.50	SW/GW-SAND/GRAVEL (native), little silt, loose, fine, medium and coarse sand, brown/tan, dry	6.50		2GP		3.0		0.0
8								0.0
10								0.0
12				3GP		4.2		0.0
14								0.7
16								1.0
18				4GP		3.7		0.0
20								1.7
22								2.3
24	- wet at 23.0ft BGS							
	- gray staining, odor from 24.7 to 25.4ft BGS							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH69-13

PROJECT NUMBER: 038443-74-02

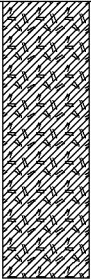
DATE COMPLETED: June 21, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26	SW-SAND (native), loose, medium to coarse sand, well graded, brown, wet	26.50		6GP		3.0		6.3
28								117
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.5
32	Temporary well screened from 24.0 to 28.0ft BGS. Screen removed and backfilled on June 21, 2013.							
34	Depth: 23-25ft BGS Sudan IV test results: positive PID Headspace (ppm): 6.3							
36								
38								
40								
42								
44								
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH70-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 21, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.25	ASPHALT	0.25	BACKFILLED WITH BENTONITE CHIPS					
1.00	SW-SAND (FILL), loose, fine to medium sand, little coarse sand, well graded, dark brown to black, dry - glass pieces at 1.0ft BGS	1.00		1GP		2.5		1.0
4	SP-SILTY SAND (FILL), slightly compact, fine sand, little medium sand, poorly graded, dark gray, dry	5.00						1.0
5.70	SW-SILTY SAND (native), trace clay, little fine gravel, medium to coarse sand, well graded, brown, dry	5.70						0.0
7.00	CL-SILTY CLAY (native), little coarse sand, cohesive, brown, dry - rock at 6.0ft BGS	7.00		2GP		4.0		0.0
	SW/GW-SAND/GRAVEL (native), loose, fine, medium and coarse sand, fine gravel, well graded, tan/brown, dry							0.4
				3GP		3.8		0.0
								0.0
				4GP		4.0		0.0
				19-20 JC-034				0.0
22.50	SP-SAND (native), loose, medium sand, poorly graded, brown, wet - 1/8" iron staining at 22.7ft BGS	22.50	↓	5GP		2.9		0.0
	- 1/4" iron staining at 27.0ft BGS							0.0
				6GP		3.2		0.0
								0.0
				7GP		3.8		0.0
32.50	CL-CLAY (native), trace coarse sand, cohesive, gray, dry	32.50						
33.60	SW/GW-SAND/GRAVEL (native), loose, well graded, medium to coarse sand, fine gravel, brown, dry	33.60						
				8GP		0.0		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER FOUND ↓

CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH70-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 21, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								
42				9GP		3.8		0.0
44								
46				10GP		3.0		0.0
48								
50				11GP		2.5		0.0
52								
54				12GP		2.5		0.0
56								
58								
60	END OF BOREHOLE @ 60.0ft BGS	60.00						
62	Temporary well screened from 23.5 to 27.5ft BGS. Screen removed and backfilled on June 21, 2013.							
64	Depth: 22.5-24.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
66	Depth: 30.5-32.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
68	Depth: 33.6-35ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH71-13
DATE COMPLETED: June 20, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.50	PAVEMENT/ROCKS	0.50	BACKFILLED WITH BENTONITE CHIPS					0.0
2	SW-SILTY GRAVELLY SAND (FILL), medium density, low plasticity, brown/dark gray, low moisture			1GP		3.5		0.0
4	- 0.1' thick layer of fine sand, dark gray at 0.6' BGS							0.0
5.50	SP-SAND (FILL), low density, medium sand, dark gray/black, low moisture	5.50						0.0
6.75	SP-SAND (FILL), low density, fine grained, white, low moisture	6.75		2GP		3.2		0.0
7.00	SW-SAND (native), with gravel/rock fragments, low density, medium sand, tan/brown, low moisture	7.00						0.0
10								0.0
12				3GP		3.4		0.0
14								0.0
16								0.0
18				4GP		3.9		0.2
20								0.0
22				5GP		3.2		0.0
24	- water table at 23.5ft BGS			21.5-23.5 JT-025				0.0
26								0.0
28				6GP		3.0		0.0
30								0.0
31.25	ML-SILT (TILL), with sand & gravel, high density, low plasticity, gray, high moisture	31.25						0.0
32.75	SW-SAND (native), with gravel/rock fragments, low density, medium sand, tan/brown, low moisture	32.75		7GP		2.4		0.0
34								0.0
36								0.0
38				8GP		3.2		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH71-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 20, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								0.0
42				9GP		3.0		0.0
44								0.0
46								0.0
48				10GP		3.5		0.0
50								0.0
52				11GP		3.0		0.0
54								0.0
56				12GP				0.0
58								0.0
60	END OF BOREHOLE @ 60.0ft BGS	60.00						0.0
62	Temporary well screened from 24.5 to 28.5ft BGS. Screen removed and backfilled on June 20, 2013.							
64	Depth: 23.5-25.5ft BGS							
66	Sudan IV test results: negative							
68	PID Headspace (ppm): 0							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH72-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 20, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	TOPSOIL	0.50						0.0
2	SW-SAND(FILL), with gravel/rock, medium sand, brown, low moisture	1.50						
	SP-SAND (FILL), low density, fine sand, dark gray/black, low moisture	2.00		1GP		3.3		0.0
4	ML-SILT (FILL), with sand & gravel, medium density, low plasticity, brown/gray, medium moisture	2.40						0.0
6	SP-SAND (FILL), low density, fine sand, dark gray/black, low moisture	6.25						0.0
8	SW-SAND (native), with gravel/rock fragments, trace silt, low density, medium sand, tan/light brown, low moisture			2GP		3.0		40.6
10								2.0
12								0.0
14				3GP		3.5		0.0
16								0.0
18				4GP		3.8		0.0
20								0.0
22	- water table at 20.8ft BGS							1.1
24	- strong odors and staining, petrol type odor, black at 22.3ft BGS			5GP		3.0		32.9
26	END OF BOREHOLE @ 26.0ft BGS	26.00						70.4
28	Temporary well screened from 21.75 to 25.75ft BGS. Screen removed and backfilled on June 20, 2013.							
30	Depth: 20.75-22.75ft BGS							
32	Sudan IV test results: positive							
34	PID Headspace (ppm): 32.9							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND
 CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH73-13
DATE COMPLETED: June 20, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.20	PAVEMENT	0.20						2.0
2	SW-SAND (FILL), with gravel/rock fragments, low density, medium sand, brown/tan, low moisture			1GP		2.9		2.3
4								0.0
6	- perched water, 1.0' thick at 6.3ft BGS							7.1
8	SW-SAND (native), with gravel/rock fragments, low density, medium sand, tan, low moisture	7.50		2GP		2.8		0.7
10								0.0
12				3GP		3.2		0.0
14								0.0
16								6.3
18				4GP		2.6		0.9
20	- water table at 20.3ft BGS							1.1
22	- gray section, 0.3' thick at 20.4ft BGS							32.9
24	- orange sands, down to 26.0' at 21.5ft BGS			5GP		1.8		70.4
26	END OF BOREHOLE @ 26.0ft BGS	26.00						
28	Temporary well screened from 21.5 to 25.5ft BGS. Screen removed and backfilled on June 20, 2013.							
30	Depth: 6.33-7.33ft BGS							
32	Sudan IV test results: negative							
34	PID Headspace (ppm): 7.1							
36	Depth: 20.5-22.5ft BGS							
38	Sudan IV test results: negative							
	PID Headspace (ppm): 0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND 
CHEMICAL ANALYSIS 

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH74-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 20, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	PAVEMENT/ROCKS	0.20						
	SW-SAND (FILL), trace gravel/rocks, brown, low moisture	0.80						372
2		2.10		1GP		3.3		165
4	SP-SAND (FILL), high/medium desity, fine sand, black, low moisture							66.0
	SW-SAND (FILL), trace gravel, medium sand, brown,							29.6
6		6.00						41.3
	ML-SANDY SILT (FILL), high density, dark gray/brown, medium moisture	7.00		2GP		3.3		0.0
8								0.0
	SW-SAND (native), with gravel.rocks, low density, medium sand, tan/light brown, low moisture							41.3
10								29.8
12				3GP		0.0		23.6
14								23.1
16								3.6
18				4GP		4.0		3.4
20								
22	- water table at 21.0ft BGS							
24				5GP		3.1		
26		26.00						
28	END OF BOREHOLE @ 26.0ft BGS							
30	Temporary well screened from 22.0 to 26.0ft BGS. Screen removed and backfilled on June 20, 2013.							
32	Depth: 21-23ft BGS Sudan IV test results: negative PID Headspace (ppm): 23.1							
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND
 CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH75-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 25, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.50	TOPSOIL	0.50		0-2' JT-045				66.0
2	SW-SILTY SAND (FILL), with gravel, trace rock fragments, low density, dark gray/black, low moisture	3.00		1GP		3.5		33.8
4	SP-SAND (FILL), medium to high density, medium sand, dark gray/black, low moisture							18.4
6				2GP		2.8		59.6
8								10.1
10		10.50						35.2
12	SW-SILTY SAND (FILL), with rock/gravel, glass fragments, low density, dark gray/black, low moisture			3GP		1.8		0.0
14								0.0
16	- 1.75' perched water at 15.3ft BGS - 0.25' wood fragments, increase in moisture content at 16.0ft BGS			4GP		2.5		0.0
18								0.0
20		20.00						0.0
22	SW-SAND (native), with gravel/rock fragments, medium sand, tan, low moisture - wet at 22.0ft BGS			20-22' JT-046		2.8		0.0
24				5GP				0.0
26								0.0
28				6GP		3.0		0.0
30								0.0
32	CL-CLAY, high density, moderate plasticity, gray, low moisture	31.75		7GP		4.5		0.0
34								0.0
36				8GP		4.4		0.0
38								0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼
 CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH75-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 25, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								0.0
42	SW-SAND (native), with gravel/rock fragments, medium grained, tan, low moisture	41.50		9GP		3.5		0.0
44								0.0
46								0.0
48				10GP		3.5		0.0
50								0.0
52				11GP		4.0		0.0
54								0.0
56	ML-SILT (till), with sand and gravel, high density, gray, high moisture	55.00		12GP		4.5		0.0
58								0.0
60	SW-SAND (native), with gravel/rock fragments, medium grained, tan, low moisture	59.00						0.0
60	END OF BOREHOLE @ 60.0ft BGS	60.00						
62	Temporary well screened from 23.0 to 27.0ft BGS. Screen removed and backfilled on June 25, 2013.							
64								
66	Depth: 15.25-17ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
68	Depth: 22-24ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH76-13
DATE COMPLETED: June 25, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), loose, fine, medium and coarse grained, well graded, gray, dry	1.70	BACKFILLED WITH BENTONITE CHIPS	1GP	4.0	4.0		1.1
	SP-SAND (FILL), loose, fine sand, poorly graded, black, dry	2.30						17.9
	CONCRETE POWDER & ROCK							1.3
4				2GP	2.8	2.8		6.5
6	SW-SAND (FILL), loose, fine to medium sand, well graded, black, dry	5.20						70
8								10.1
10				3GP	2.0	2.0		4.2
12								0.7
14								0.7
16				4GP	3.1	3.1		0.6
18								0.0
20								0.0
22			5GP	3.0	3.0			0.0
24								1.6

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND
CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13




STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH76-13
DATE COMPLETED: June 25, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26	- some coarse gravel at 25.7ft BGS	26.00		6GP		4.0		0.0
28	CL-CLAY (native), cohesive, low plasticity, brown/gray, dry							0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32	Temporary well screened from 23.5 to 27.5ft BGS. Screen removed and backfilled on June 26, 2013.							
34	Depth: 22.5-24.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 0.0							
36	Depth: 24-26ft BGS Sudan IV test results: negative PID Headspace (ppm): 1.6							
38								
40								
42								
44								
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ☐
CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH77-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 25, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0.20	TOPSOIL	0.20						0.0
2	SP-SAND (FILL), trace gravel, high density, fine to medium sand, dark gray/black, low moisture			1GP		4.1		0.0
4								0.0
6								0.0
7.00	SW-SAND (FILL), with gravel/rock, garbage, etc, low density, medium sand, dark gray/black, low moisture	7.00		2GP		2.0		0.0
8								0.0
10								0.0
12				3GP		1.7		0.0
14								0.0
16								0.0
18	- 0.1' light gray layer with chemical odor at 16.9ft BGS			4GP		2.1		18.5
20								0.0
21.00	SW-SAND (native), with silt, gravel/rock fragments, low density, medium sand, dark brown/gray, high moisture	21.00		5GP		2.5		0.0
22	- wet at 22.0ft BGS							20.9
24								
26								
28				6GP		3.7		0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.0
32	Temporary well screened from 23.0 to 27.0ft BGS. Screen removed and backfilled on June 26, 2013.							
34	Depth: 22-24ft BGS							
36	Sudan IV test results: negative							
38	PID Headspace (ppm): 20.9							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND
 CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH78-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 25, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND
 CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH79-13
DATE COMPLETED: June 26, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), loose, fine sand, well graded, black, dry	1.70		1GP		4.0		11.2 36
4	SP-SAND (FILL), loose, fine sand, little-some medium sand, poorly graded, black, dry - red-orange dust in sample at 2.5ft BGS - tan sand 0.5" thick at 4.9ft BGS - red brick at 6.5ft BGS			46" JC-056				88.4 61.7
6				2GP		3.0		
8								
10	- peach sand/wood fragments at 10.1ft BGS							11.1
12				3GP		2.2		3.7
14								2.4
16								2.1
18				4GP		2.0		2.0
20	ROCK fragments/pieces	20.20						1.0
22		22.50		21-23" JC-057/5GP		2.8		0.8
24	SW/GW SAND/GRAVEL (native), loose, medium-coarse sand, fine gravel, well graded, brown/gray, dry - wet at 23.0ft BGS							2.1
26				6GP		3.0		1.8 0.0
28		28.50						0.0
30	SW-SAND (native), loose, medium and coarse sand, little fine gravel, well graded, gray, wet END OF BOREHOLE @ 30.0ft BGS	30.00						
32	Temporary well screened from 24.0 to 28.0ft BGS. Screen removed and backfilled on June 26, 2013.							
34	Depth: 23-25ft BGS Sudan IV test results: negative PID Headspace (ppm): 2.1							
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND
CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES GPJ CRA CORP.GDT 9/20/13





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH80-13
DATE COMPLETED: June 24, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. MELECOSKY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SP-SAND (FILL), with few gravel, compact, fine sand, black, moist			1GP		4.1		0.0
4								0.0
6								0.0
8				2GP		1.8		0.0
10								0.0
12								0.0
14	- 0.3' red brick fragments at 13.5ft BGS			3GP		2.0		0.0
16								0.0
18				4GP		2.5		0.0
20								0.0
22				5GP		4.1		0.0
24	- loose, with fine gravel, fine to medium sand, gray, moist at 24.0ft BGS			22.5-24.5 SM-042				0.0
26	- wet at 24.5ft BGS							0.0
28				6GP				0.0
30	- fine sand at 28.5ft BGS							0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32	Temporary well screened from 25.5 to 29.5ft BGS. Screen removed and backfilled on June 25, 2013.							
34	Depth: 24.5-26.5ft BGS							
36	Sudan IV test results: negative							
36	PID Headspace (ppm): 0							
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND 
CHEMICAL ANALYSIS 

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH81-13
DATE COMPLETED: June 26, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), loose, fine-coarse sand, well graded, brown, dry	2.00	BACKFILLED WITH BENTONITE CHIPS	1GP		3.4		4.4
2.80	ML-SANDY SILT (FILL), cohesive, brown, dry							
4	SW-SAND (FILL), loose, trace gravel, fine-coarse sand, well graded, brown, dry							18.2
6	- wood pieces at 6.0ft BGS							
8	SP-SAND (FILL), loose, fine sand, little medium sand, poorly graded, black, dry	7.00		2GP		3.2		25.5
10	- rock at 9.9ft BGS							7.9
12								22.6
14				3GP		2.3		8.4
16				15-17' JC-070				126.4
18	- perched water at 17.5ft BGS			4GP		3.0		16.2
20	- rock at 19.8ft BGS	20.00	▽					11.2
22	SW-SAND (native), loose, medium-coarse sand, little fine sand, loose, fine gravel, dry							9.1
24	- water table/wet, black at 24.0ft BGS			5GP 22-24' JC-071		3.6		26.3
26								76.6
28				6GP		3.0		54.2
30	SW-SAND (native), loose, medium and coarse sand, well graded, brown, wet	28.80						
30	END OF BOREHOLE @ 30.0ft BGS	30.00						5.3
32	Temporary well screened from 25.0 to 29.0ft BGS. Screen removed and backfilled on June 27, 2013.							
34								
36	Depth: 24-26ft BGS Sudan IV test results: negative PID Headspace (ppm): 76.6							
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH82-13
DATE COMPLETED: June 24, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), trace silt, fine grained, consolidated, well graded, black to dark gray, dry			1GP		2.0		0.0
4								0.0
								10.9
6				2GP		2.0		1.3
8								8.2
10								2.6
12				3GP		2.4		1.1
14								0.9
16				4GP		3.0		1.1
18								1.2
20				19-21" JC-039				0.0
22	- wet at 21.0ft BGS							0.0
22	ML-SILT (FILL), compact, light gray, wet	22.50		5GP		4.3		0.0
24	SW-SAND (FILL), loose, medium to coarse sand, little fine sand, well graded, black, wet	23.00						0.0
26	SW-SAND (FILL), loose, fine to medium sand, well graded, black, wet	25.00						0.0
28	SW-SAND (FILL), loose, medium to coarse sand, well graded, black, wet	26.80		6GP		3.5		0.0
30	SW/GW-SAND/GRAVEL (FILL), loose, medium to coarse sand, fine gravel	29.00						0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32	Temporary well screened from 22.0 to 26.0ft BGS. Screen removed and backfilled on June 25, 2013.							
34	Depth: 21-23ft BGS							
36	Sudan IV test results: negative							
38	PID Headspace (ppm): 0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND
CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH83-13
DATE COMPLETED: June 24, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. MELECOSKY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SP-SAND (FILL), trace gravel, compact, fine sand, brown, moist							0.0
	- slight odor, black at 2.6ft BGS			1GP		3.8		42.5
4								117
	- brown/black at 4.6ft BGS							0.0
6				2GP		3.1		0.0
8								0.0
10								0.0
12				3GP		2.9		0.0
14								0.0
16								0.0
18		18.20		4GP		2.8		0.0
20	SP/GP-SAND AND GRAVEL (native), loose, medium and coarse sand, few fines							0.0
22				5GP		3.2		0.0
	- wet at 22.4ft BGS							0.0
24								0.0
26				6GP		3.8		0.0
	- SP - SAND (native), loose, fine sand at 26.0ft BGS							0.0
28								0.0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.0
32	Temporary well screened from 23.2 to 27.2ft BGS. Screen removed and backfilled on June 25, 2013.							
34	Depth: 22.4-24.4ft BGS							
36	Sudan IV test results: negative							
38	PID Headspace (ppm): 0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND
CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES GPJ CRA CORP GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH84-13
DATE COMPLETED: June 26, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	ASPHALT	0.20						98.4
2	SW-SAND (FILL), trace gravel/rock fragments, low density, tan, low moisture	1.50						
	CL-CLAY (FILL), trace silt/sand, high density, medium plasticity, dark gray, low moisture	2.10		1GP 2-4 JT-048		3.8		10.8
4	ML-SILT (FILL), with sand & gravel, medium density, gray, low moisture							48.3
6		6.20						28.4
8	SW-SAND (FILL), trace gravel/rock fragments, low density, tan, low moisture			2GP		2.5		14.5
10		10.00						12.3
	SP-SAND (FILL), fine/medium grained, dark gray/black	11.00						
12	SW-SAND (native), with gravel/rock fragments, low density, medium sand, tan, low moisture			3GP		2.3		0.0
14	-perched water, 0.8' thick at 11ft BGS							3.6
16								0.0
18				4GP		3.4		0.0
20				19-21" JT-048				0.0
22	- water table at 21.0ft BGS							0.0
24				5GP		2.8		0.0
26								0.0
28				6GP		2.5		0.0
30								0.0
32	CL-SILTY CLAY, trace gravel, high density, medium plasticity, gray/brown, high moisture	31.50						0.0
	SW-SAND (native), with gravel/rock fragments, low density, medium sand, tan, low moisture	32.50		7GP		3.8		0.0
34								0.0
36		36.75						0.0
38	CL-SILTY CLAY, trace gravel, high density, medium plasticity, gray/brown, high moisture			8GP		4.2		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH84-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 26, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. TEEPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								0.0
42								0.0
44				9GP		4.3		0.0
46								0.0
48	SW-SAND (native), with gravel/rock fragments, low density, medium sand, tan, low moisture	47.75		10GP		4.1		0.0
50								0.0
52				11GP		2.5		0.0
54								0.0
56								0.0
58				12GP		2.5		0.0
60	END OF BOREHOLE @ 60.0ft BGS	60.00						0.0
62	Temporary well screened from 22.0 to 26.0ft BGS. Screen removed and backfilled on June 26, 2013.							
64	Depth:11-11.8ft BGS Sudan IV test results: negative PID Headspace (ppm): 12.3							
66								
68	Depth:21-23ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH85-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 25, 2013



CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), loose, fine, medium and coarse sand, well graded, gray, dry	1.00	BACKFILLED WITH BENTONITE CHIPS	1GP		4.0		0.0
4	SP-SAND (FILL), loose, fine grained, little medium sand, poorly graded, black, dry							0.0
	- 1" coarse sand at 2.5ft BGS							0.3
	- fine gravel pieces at 2.7ft BGS							
	- increase in silt content at 3.0ft BGS							
6				2GP		2.5		18.2
8				8-10' JC-040				83.1
10								
12	- fine gravel at 10.8ft BGS			3GP		2.5		27.2
	- nail at 11.0ft BGS							
	- white gravel, possible concrete at 12.0ft BGS							
14								2.0
16								0.0
18	SW-SAND (FILL), some silt, trace fine gravel, fine, medium and coarse sand, compact	17.00		4GP		2.5		0.0
20				18-20' JC-051				0.0
22	- cleaner sand, trace silt from 20.1 to 20.5ft BGS							0.0
24	- wet at 22.5ft BGS	22.80		5GP		2.5		0.0
26	SP-SAND (FILL), loose, fine sand, poorly graded, black, wet							0.0
28				6GP		2.7		0.0
30								0.0
32				7GP		3.0		3.2
34								
36								
38	- rock fragments from 31.0 to 40.5ft BGS			8GP		3.2		1.4

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND 
 CHEMICAL ANALYSIS 

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH85-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 25, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40	ML-SILT (native), trace fine sand, compact, black, moist	39.00		9GP		3.3		0.0
42	SW/GW-SAND/GRAVEL (native), loose, medium to coarse sand, fine gravel, brown, wet	40.50						
44								
46				10GP		3.2		0.0
48								
50								
52	CL-CLAY, cohesive, low plasticity, brown, dry	48.50		11GP		3.0		0.0
54	SP-SAND (native), loose, medium sand, trace fine sand, poorly graded - gravelly sand at 51.0ft BGS	49.30						
56								
58	CL-CLAY, trace coarse sand and gravel, cohesive, low plasticity	52.00		12GP		3.3		0.0
60								
62								
64	END OF BOREHOLE @ 60.0ft BGS	60.00						
66	Temporary well screened from 23.5 to 27.5ft BGS. Screen removed and backfilled on June 26, 2013.							
68	Depth: 12-13ft BGS Sudan IV test results: negative PID Headspace (ppm): 2							
70	Depth: 22.5-24.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
72	Depth: 50-52ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
74	Depth: 55-57ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-74-02
CLIENT: PRP GROUP
LOCATION: MORaine, OH

HOLE DESIGNATION: BH86-13
DATE COMPLETED: June 24, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), trace fine gravel, medium to coarse sand, trace to little fine sand, loose, well graded, dark gray, dry			1GP		3.2		0.0
4								0.0
6								0.0
8	- 2" sand, brown at 6.8ft BGS	7.00		2GP		3.1		0.0
10	SP-SAND (FILL), trace silt, medium sand, trace fine sand, slightly consolidated, poorly graded, dark brown/dark gray/black, dry - wood fragments at 9.0ft BGS							25.5
12				3GP		3.2		0.0
14								0.0
16	- light brown at 15.5ft BGS			4GP		2.5		51.2
18	- coarse gravel (rock) at 18.5ft BGS							5.2
20		20.90						0.0
22	SW-SAND (native), loose, medium to coarse sand, well graded, light gray, dry			5GP		2.1		0.0
24	- wet at 24.5ft BGS							0.0
26								0.0
28				6GP		1.6		0.0
30	SM-SAND/SILT (native), cohesive, compact, tan/yellow, moist	29.30						0.0
32	END OF BOREHOLE @ 30.0ft BGS	30.00						
34	Temporary well screened from 25.5 to 29.5ft BGS. Screen removed and backfilled on June 24, 2013.							
36	Depth: 24.5-26.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND 
CHEMICAL ANALYSIS 

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH87-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 26, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW-SAND (FILL), loose, fine, medium and coarse sand, well graded, brown, dry	0.50	BACKFILLED WITH BENTONITE CHIPS	1GP		3.5		0.0
4	ML-CLAYEY SANDY SILT (FILL), trace coarse sand to fine gravel, cohesive, brown, dry							0.0
6								1.1
8	SW-SILTY SAND (FILL), loose, fine to medium sand, well graded, black, dry	7.20		2GP		3.4		22.3
10								13.4
12	- little to some coarse sand at 11.0ft BGS			3GP		2.7		0.0
14								0.0
16								0.0
18			WATER TABLE	4GP		3.0		0.0
20				18-20' JC-058/JC-058				0.0
22	- wet at 22.0ft BGS			5GP		3.5		0.0
24	- sand, brown, wet from 23.5 to 24.5ft BGS							0.9
26	- black at 24.5ft BGS							0.0
28				6GP		1.5		0.0
30	- coarse sand, little fine to medium sand at 29.7ft BGS	30.00						0.0
32	SW/GW-SAND/GRAVEL (native), loose, medium to coarse sand, fine gravel, brown/tan, wet			7GP		3.0		0.0
34								
36								
38				8GP		3.0		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼
 CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH87-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 26, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								
42				9GP		2.5		0.0
44								
46				10GP		2.5		0.0
48	- rock at 47.0ft BGS							
50	- REFUSAL at 50.0ft BGS END OF BOREHOLE @ 50.0ft BGS	50.00						
52	Temporary well screened from 23.0 to 27.0ft BGS. Screen removed and backfilled on June 27, 2013.							
54								
56	Depth: 22-24ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
58								
60								
62								
64								
66								
68								
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH88-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 24, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SP-SAND (FILL), loose, medium sand, trace fine sand, poorly graded, dark gray/black, trace orange sand dust comingled			1GP		4.0		0.0
4								0.0
6								0.6
8	- 2" coarse white sand at 8.0ft BGS			2GP		4.5		7.0
10	SW-SAND (FILL), loose, medium to coarse sand, trace fine sand, well graded, black	9.00						41.8
12	- black sand, moisture, slight sheen, light odor at 12.5ft BGS			3GP		2.5		13.2
14								11.2
16	SP-SAND (FILL), trace silt, loose, fine sand, little medium sand, poorly graded, black, moist	14.70		4GP		3.0		5.8
18								8.6
20	SP-SAND (FILL), loose, medium sand, poorly graded, black, moist	19.80						5.0
22	- wet at 22.0ft BGS			5GP		3.0		4.5
24								4.5

BACKFILLED WITH BENTONITE CHIPS

18-20'
JC-037

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼
 CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH88-13

PROJECT NUMBER: 038443-74-02

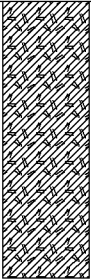
DATE COMPLETED: June 24, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26	SW-SAND (native), trace fine gravel, loose, fine, medium and coarse sand, well graded, gray, wet, slight odor - 2 pieces of coarse gravel at 25.3ft BGS	25.30		6GP		4.0		3.1
28	SP-SAND (native), trace silt, fine sand, consolidated, poorly graded, orange staining, wet, slight odor	27.30						0.5
30	END OF BOREHOLE @ 30.0ft BGS	30.00						0.5
32	Temporary well screened from 23.0 to 27.0ft BGS. Screen removed and backfilled on June 24, 2013.							
34	Depth: 12.5-13ft BGS Sudan IV test results: positive PID Headspace (ppm): 11.2							
36	Depth: 22-24ft BGS Sudan IV test results: slight positive PID Headspace (ppm): 4.5							
38								
40								
42								
44								
46								
48								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH89-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 24, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: S. MELECOSKY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SP-SAND (FILL), and silt, trace gravel, loose, brown to gray, moist			1GP		3.1		0.0
4								0.0
6								0.0
8	- brown at 7.5ft BGS			2GP		3.3		0.0
10								0.0
12				3GP		1.4		0.0
14								0.0
16								0.0
18				4GP		2.2		0.0
20	- trace gravel, few silt, compact, fine to medium sand, brown, moist at 19.2ft BGS			18-20' SM-029				--
22	- wet at 19.8ft BGS							--
24	- with gravel, trace silt, loose, fine to medium sand at 20.0ft BGS			5GP		0.0		0.0
26								0.0
28				6GP		1.4		0.0
30								0.0
32		32.20		7GP		3.2		0.0
34	CL-CLAY, trace silt and sand, firm, low plasticity, gray, moist							0.0
36								0.0
38				8GP		4.3		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER FOUND ▽

CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH89-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 24, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: S. MELECOSKY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40	END OF BOREHOLE @ 40.0ft BGS	40.00						0.0
42	Temporary well screened from 20.8 to 24.8ft BGS. Screen removed and backfilled on June 24, 2013.							
44	Depth: 30.2-32.2ft BGS							
46	Sudan IV test results: negative							
48	PID Headspace (ppm): 0							
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH90-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 8, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SM-SAND/SILT (FILL), little fine gravel, compact, fine grained sand, brown, dry - red clay brick dust at 2.0ft BGS - concrete dust at 2.7ft BGS			1GP		4.4		1.9
4	- red clay brick dust at 4.5ft BGS							1.3
6	- concrete dust/gravel 4" long at 6.0ft BGS			2GP		3.3		0.0
8								0.0
10								0.0
12				3GP		2.0		0.0
14	SP-SAND (FILL), loose, medium grained, trace fine sand, poorly graded, black, wet	14.00						0.0
16	perched water in black medium sand			4GP		3.8		0.0
18	laminated cardboard trash	18.50						0.0
20								0.0
22				5GP		3.2		0.0
24	ML-SILT (FILL), trace clay, compact, black, damp	23.80						0.0
26	SM-SILT/SAND (FILL), compact, fine sand, well graded, black, damp	24.80						0.0
28	SW-SAND (FILL), trace silt, fine and medium sand, well graded, black, moist, - fine gravel/brown 1" thick at 26.0ft BGS - metal pieces/wood 3" thick at 27.0ft BGS	24.90		6GP 26.5-28.5' JC-088		2.6		0.0
30	SM-SAND/SILT (FILL), compact, fine-medium sand, black, moist	28.00						0.0
32	SP-SAND (FILL), loose, fine sand, little medium sand, poorly graded, gray, wet	30.00		7GP		3.6		0
34								
36	SW-SAND (FILL), trace fine gravel, loose, medium-coarse-fine sand, well graded, black, wet	35.00		8GP		3.0		1.4
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ☒
CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH90-13

PROJECT NUMBER: 038443-74-02


DATE COMPLETED: July 8, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40	CL-CLAY, silty, cohesive, little coarse sand, gray/brown, damp	39.80		9GP				
42	SW-SAND (native), loose, trace fine gravel, medium-coarse sand, trace fine sand, brown, wet	42.00				5.0		0.0
44				10GP				
46						3.8		0.0
48								
50	END OF BOREHOLE @ 50.0ft BGS	50.00						
52	Temporary well screened from 29.5 to 33.5ft BGS. Screen removed and backfilled on July 9, 2013.							
54	Depth: 14-15ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
56								
58	Depth: 28.5-30.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
60								
62	Depth: 38.5-40.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 1.4,0							
64								
66								
68								
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH91-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 27, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW/GW-SAND/GRAVEL (FILL), loose, medium to coarse sand, fine gravel, well graded, brown, dry	2.00	BACKFILLED WITH BENTONITE CHIPS	1GP		3.0		0.0
4	SM-SAND/SILT (FILL), little fine gravel, compact, fine sand, well graded, brown, dry							0.0
6								0.0
8	- rock pieces at 7.0ft BGS - rock pieces at 8.0ft BGS			2GP		3.5		0.0
10								0.0
12	SW-SILTY SAND (FILL), compact, fine to medium sand, dark gray	10.80		3GP		2.0		0.0
14								0.0
16	- wood pieces at 16.0ft BGS							0.0
18	ML-SILT (FILL), compact, dark gray to black	17.00		4GP		2.5		0.0
20	SW-SILTY SAND (FILL), compact, fine to medium sand, dark gray	17.70						0.6
22	laminated felt-like material, green	20.20		5GP		3.0		0.0
24	- silt layer from 22.7 to 23.2ft BGS							0.0
26	SP-SAND (FILL), loose, fine sand, trace medium sand, poorly graded, black, dry	24.00		6GP		3.0		0.0
28	- wet at 26.0ft BGS							0.0
30	- rock pieces at 29.5ft BGS			7GP		4.0		0.0
32								0.0
34								0.0
36	SW-SAND (native), loose, medium to coarse sand, little fine sand, well graded, brown, wet	35.00		8GP		3.5		0.0
38								0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ∇
 CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH91-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 27, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40	- black staining from 39.5 to 39.7ft BGS CL-CLAY, trace coarse sand, cohesive, low plasticity, yellow/brown, dry	39.70		9GP		2.8		8.2
42								-
44								
46	END OF BOREHOLE @ 45.0ft BGS	45.00						
48	Temporary well screened from 27.0 to 31.0ft BGS. Screen removed and backfilled on June 28, 2013.							
50	Depth: 26-28ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
52	Depth: 37.7-39.7ft BGS Sudan IV test results: positive PID Headspace (ppm): 8.2							
54								
56								
58								
60								
62								
64								
66								
68								
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH92-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 9, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	ML-SANDY SILT (FILL), compact, fine sand, trace medium to coarse sand, brown, dry							0.0
	- CONCRETE ROCK at 2.7ft BGS	2.70		1GP		4.0		0.0
4	ML-SILT (FILL), compact, brown, moist, clean	4.20						0.0
	SW-SAND (FILL), trace fine gravel, medium to coarse sand, well graded, brown to dark brown, dry	5.00						0.0
6	CL-SILTY/SANDY CLAY (FILL), trace coarse sand and fine gravel, cohesive, fine sand, brown, dry	6.00		2GP		3.5		0.0
8	CONCRETE ROCK/FRAGMENTS							0.0
10	- silty clay in concrete pieces at 8.0ft BGS	10.00						0.0
12	SW-SILTY SAND (FILL), little fine gravel, loose, fine, medium and coarse sand, well graded			3GP		2.4		0.0
14	- concrete pieces at 11.5ft BGS							0.0
16	- perched water from 15.5 to 17.0ft BGS							0.0
18	ML-SANDY SILT (FILL), compact, fine sand, dark gray to black, moist to damp	16.80		4GP		2.7		1
20								0.0
	- rock at 20.8ft BGS	20.80						1.3
22	SW-SAND (FILL), loose, fine, medium and coarse sand, well graded, black, wet			5GP		3.2		0.0
24								2.9
26								0.0
28				6GP		3.0		0.0
30		30.00						0.0
	ML-SILT (FILL), trace medium sand, very soft, brown, wet	30.50						0.0
32	SW/GW-SAND/GRAVEL (native), loose, medium to coarse sand, fine gravel, well graded, gray/brown, wet			7GP		2.5		0.0
34								
36								
38				8GP		3.5		0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER FOUND ▼

CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH92-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 9, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								
42				9GP		4.0		0.0
44	CL-SILTY CLAY, little medium to coarse sand, cohesive, low plasticity, gray/brown, damp	43.00						
46	SP-SILTY SAND (native), medium grained, little fine grained, poorly graded, wet	44.20						
48	SW-SILTY SAND (native), loose to slightly compact, fine, medium and coarse sand, well graded, brown, wet	45.00						
50	SW-SAND (native), loose, medium to coarse sand, well graded, brown, wet	46.00		10GP		4.0		0.0
52	END OF BOREHOLE @ 50.0ft BGS	50.00						
54	Temporary well screened from 21.8 to 25.8ft BGS. Screen removed and backfilled on July 9, 2013.							
56	Depth: 15.5-17ft BGS Sudan IV test results: negative PID Headspace (ppm): 1							
58	Depth: 20.8-22.8ft BGS Sudan IV test results: slight positive PID Headspace (ppm): 1.3							
60	Depth: 41-43ft BGS Sudan IV test results: negative PID Headspace (ppm): 1.4							
62	Depth: 44.2-46.2ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
64								
66								
68								
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH93-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 9, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
2	SW/GW-SILTY SAND/GRAVEL (FILL), fine, medium and coarse sand, fine gravel, well graded, brown, dry							0.0
	CONCRETE RUBBLE	2.30 2.70		1GP		4.0		0.0
4	ML-CLAYEY SILT (FILL), little to some fine gravel, coarse sand, compact, brown, dry							0.0
6								0.0
8				2GP		3.5		0.0
10	- 2" coarse sand at 9.5ft BGS							0.0
	CONCRETE RUBBLE	10.20 10.80						0.0
12	ML-CLAYEY SILT (FILL), little to some fine gravel, coarse sand, compact, brown, dry			3GP		2.4		0.0
14								0.0
16								0.0
18	- cobble, wet at 18.5ft BGS	18.50		4GP		1.9		0.0
20	SW-SAND (FILL), trace fine gravel, loose, fine to medium sand, trace coarse sand, well graded, black, wet							0.0
22				5GP		3.0		0.0
24								0.0
26								0.0
28				6GP		2.0		0.0
30	- fine to coarse gravel at 29.5ft BGS							0.0
32	- glass pieces at 31.2ft BGS			7GP		2.2		0.0
34								0.0
36	SW-SAND (native), trace fine gravel, loose, fine to medium sand, trace coarse sand, well graded, black, wet	35.00						0.0
38				8GP		0.1		0.0

← BACKFILLED WITH BENTONITE CHIPS

13-15
JC-073

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: BH93-13

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: July 9, 2013

CLIENT: PRP GROUP

DRILLING METHOD: GEOPROBE

LOCATION: MORaine, OH

FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
40								
42	CL-CLAY, coarse sand	41.00		9GP		5.0		0.0
44								
46	SW-SAND (native), medium and coarse sand	45.00		10GP		2.8		0.0
48								
50	END OF BOREHOLE @ 50.0ft BGS	50.00						
52	Temporary well screened from 20.0 to 24.0ft BGS. Screen removed and backfilled on July 9, 2013.							
54	Depth: 18.5-20.5ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
56								
58	Depth: 39-41ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
60								
62	Depth: 45-47ft BGS Sudan IV test results: negative PID Headspace (ppm): 0							
64								
66								
68								
70								
72								
74								
76								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☐
 CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 038443-74-02 OU1 PHASE 1A BOREHOLES.GPJ CRA_CORP.GDT 9/20/13

ATTACHMENT A.2

PHASE 1A TEST PIT AND TEST TRENCH
STRATIGRAPHIC AND INSTRUMENTATION LOGS



STRATIGRAPHIC AND INSTRUMENTATION LOG

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: TT-25

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 18, 2013

CLIENT: PRP GROUP

DRILLING METHOD: EXCAVATOR

LOCATION: MORaine, OH

FIELD PERSONNEL: G. LEWIS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE		
				NUMBER	INTERVAL	PID (ppm)
	ROUND STONE FILL, sand/gravel	0.17			0.0 - 2.0	0.0
2	SP-SAND, ash, black, dry	2.00			2.0 - 5.0	0.0
4	SP-SAND, ash, black, moist	5.00			5.0 - 7.0	0.2
6	- dark gray at 6.8ft BGS	7.00				
8	DIRT/GRAVEL MIX, with thin metal sheeting pieces, small pockets of white material, some flat pieces of metal have similarities to drum carcass sides, dark gray/brown, dry, cleaning agent odor					
10	- Single empty rusted drum carcass with open side encountered at 18ft BGS.					
12	- PID reading of drum interior ranged from 0.0 to 0.4 ppm, depending on wind conditions					
14						
16						
18	SP/GP-SAND/GRAVEL, red, moist	18.00			18.0 - 20.0	
20	GP/SP-GRAVEL/SAND, 2" round stone, wet	20.00			20.0	0.1
22	- Empty steel tank encountered at 20ft BGS, approx. same size as a drum. PID = 0.0 ppm.	21.00			20.0 - 21.0	
	- 36" diameter carcass encountered between 20-21ft BGS, possible overpack					
	- water entering excavation at 21.0ft BGS					
24	END OF TEST PIT @ 21.0ft BGS					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

TEST PIT LOG 038443-74-02 OU1 PHASE 1A TEST TRENCHES.GPJ CRA_CORP.GDT 9/18/13



STRATIGRAPHIC AND INSTRUMENTATION LOG

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: TT-26

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 18, 2013

CLIENT: PRP GROUP

DRILLING METHOD: EXCAVATOR

LOCATION: MORaine, OH

FIELD PERSONNEL: G. LEWIS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE		
				NUMBER	INTERVAL	PID (ppm)
0.0	GRAVEL/DIRT ROADBASE, light gray	0.67			0.0 - 0.7	
2	GP-GRAVEL, soil, with glass and metal debris (tire rings, leaf springs, etc.), dark, dry					
4						
6						
8						
10						
12						
13		13.00			0.7 - 13.0	0.0
14	SP-SAND (bank run), 2" round stone, light brown, dry, clean					
16						
18						
20						
21						
22	- water entering excavation in clean material at 21.0ft BGS END OF TEST PIT @ 21.0ft BGS	21.00			13.0 - 21.0	
24						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

TEST PIT LOG 038443-74-02 OU1 PHASE 1A TEST TRENCHES.GPJ CRA_CORP.GDT 9/18/13



STRATIGRAPHIC AND INSTRUMENTATION LOG

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: TT-27

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 19, 2013

CLIENT: PRP GROUP

DRILLING METHOD: EXCAVATOR

LOCATION: MORaine, OH

FIELD PERSONNEL: G. LEWIS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE		
				NUMBER	INTERVAL	PID (ppm)
	FILL, sand and gravel, light gray				0.0 - 0.8	0.0
2	FILL, fly ash-type material, mix with glass debris, dry	0.83				
4					0.8 - 7.0	
6						
8	- moist at 7.0ft BGS					
10					7.0 - 12.0	
12	SP/GP-SAND/GRAVEL (bank run), 2" round stone, dry	12.00				
14					12.0 - 14.0	
16	- 4" thick concrete pad at 16.4ft BGS					
18	END OF TEST PIT @ 17.0ft BGS	17.00				
20						
22						
24						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

TEST PIT LOG 038443-74-02 OU1 PHASE 1A TEST TRENCHES.GPJ CRA_CORP.GDT 9/18/13



STRATIGRAPHIC AND INSTRUMENTATION LOG

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: TT-28

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 20, 2013

CLIENT: PRP GROUP

DRILLING METHOD: EXCAVATOR

LOCATION: MORaine, OH

FIELD PERSONNEL: G. LEWIS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE		
				NUMBER	INTERVAL	PID (ppm)
2	FILL, sandy soil co-mingled with slag balls, with melted metal, brick/mortar block intermixed, black, dry					
4						
6						
8						
10	- 2 empty drums carcasses were exposed 24.5' west of east stake at 9.0ft BGS				7.0	2.7
12						
14	- 2 drums were exposed 9' west of east stake. Drums were excavated and contents were sampled (W-GL-001 and W-GL-002) at 13.0ft BGS				0.0 - 23.5	0.0
16						
18						
20						
22						
24	- Water at 23.5ft BGS END OF TEST PIT @ 23.5ft BGS	23.50				

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

TEST PIT LOG 038443-74-02 OU1 PHASE 1A TEST TRENCHES GPJ CRA CORP.GDT 9/18/13



STRATIGRAPHIC AND INSTRUMENTATION LOG

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: TT-29

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 19, 2013

CLIENT: PRP GROUP

DRILLING METHOD: EXCAVATOR

LOCATION: MORaine, OH

FIELD PERSONNEL: G. LEWIS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE		
				NUMBER	INTERVAL	PID (ppm)
	FILL, dirt/grass, some wood pallet pieces, light brown	0.50			0.0 - 0.5	0.0
2	FILL, dirt with construction debris, asphalt with painted lines, parking chocks reinforced with rebar, foam panels, dark brown					
4	- 3' long steel "I"-beam encountered in same direction as test trench layout at 3.0ft BGS					
6						
8	- large mass of parking chocks and rebar 21' north of south wall from 8.0 to 12.5ft BGS					
10	- fly ash/foundry sand in north end of trench, 24' north of south wall from 9.5 to 19.6ft BGS				0.5 - 19.6	0.0
12						
14						
16						
18						
20	- Water at 19.6ft BGS END OF TEST PIT @ 19.6ft BGS	19.60				
22						
24						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

TEST PIT LOG 038443-74-02 OU1 PHASE 1A TEST TRENCHES.GPJ CRA_CORP.GDT 9/18/13



STRATIGRAPHIC AND INSTRUMENTATION LOG

Page 1 of 1

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE

HOLE DESIGNATION: TT-30

PROJECT NUMBER: 038443-74-02

DATE COMPLETED: June 19, 2013

CLIENT: PRP GROUP

DRILLING METHOD: EXCAVATOR

LOCATION: MORaine, OH

FIELD PERSONNEL: G. LEWIS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE		
				NUMBER	INTERVAL	PID (ppm)
2	FILL, soil mix with concrete block debris, some trash (plastic, glass, metal), dark brown, dry					
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
	FILL, sandy/foundry sand material, wads of geotextile material, black, moist, ash signature	14.00			0.0 - 14.0	0.0
	- Water at 18.0ft BGS END OF TEST PIT @ 18.0ft BGS	18.00			14.0 - 18.0	0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼

TEST PIT LOG 038443-74-02 OU1 PHASE 1A TEST TRENCHES GPJ CRA_CORP.GDT 9/18/13